

Amendments

In the Specification:

Please amend paragraph [0084] as follows:

[0084] Fig. 11 (SEQ ID NO: 147) shows the recombination region of pAd/CMV/V5-DEST.

Please amend paragraph [0085] as follows:

[0085] Fig. 12 (SEQ ID NO: 148) shows the recombination region of pAd/PL-DEST.

Please amend paragraph [0089] as follows:

[0089] Fig. 16 (SEQ ID NO: 126) provides the nucleotide sequence of the *OpIE2* promoter.

Please amend paragraph [0090] as follows:

[0090] Fig. 17 (SEQ ID NO: 149) shows the recombination region of pIB/V5-His-DEST.

Please amend paragraph [0119] as follows:

[0119] Fig. 46A (SEQ ID NO: 150) shows the recombination region of pLenti6/V5-DEST. Figure 46B (SEQ ID NO: 151) shows the recombination region of the expression clone resulting from pLenti6/UbC/V5-DEST x entry clone. Figures 46C and 46D (SEQ ID NO: 136) show[[s]] the complete sequence of the UbC promoter.

Please amend paragraph [0120] as follows:

[0120] Fig. 47 (SEQ ID NO: 137) is a schematic representation of directional topoisomerase cloning according to the invention.

Please amend paragraph [0121] as follows:

[0121] Fig. 48 (SEQ ID NO: 152) shows the cloning region of pLenti6/V5-D-TOPO®.

Please amend paragraph [0134] as follows:

[0134] Figures 61A (SEQ ID NO: 153) and 61B (SEQ ID NO: 154) provide the sequences of the recombination

Please amend paragraph [0165] as follows:

[0165] Topoisomerase recognition site. As used herein, the term "topoisomerase recognition site" or "topoisomerase site" means a defined nucleotide sequence that is recognized and bound by a site specific topoisomerase. For example, the nucleotide sequence 5'-(C/T)CCTT-3' (SEQ ID NO: 155) is a topoisomerase recognition site that is bound specifically by most poxvirus topoisomerases, including vaccinia virus DNA topoisomerase I, which then can cleave the strand after the 3'-most thymidine of the recognition site to produce a nucleotide sequence comprising 5'-(C/T)CCTT-PO₄-TOPO, *i.e.*, a complex of the topoisomerase covalently bound to the 3' phosphate through a tyrosine residue in the topoisomerase (see Shuman, *J. Biol. Chem.* 266:11372-11379, 1991; Sekiguchi and Shuman, *Nucl. Acids Res.* 22:5360-5365, 1994; each of which is incorporated herein by reference; see, also, U.S. Pat. No. 5,766,891; PCT/US95/16099; and PCT/US98/12372 also incorporated herein by reference). In comparison, the nucleotide sequence 5'-GCAACTT-3' (SEQ ID NO: 156) is the topoisomerase recognition site for type IA *E. coli* topoisomerase III.

Please amend paragraph [0213] as follows:

[0213] Sites that may be used in the present invention include att sites. The 15 bp core region of the wildtype att site (GCTTTTTTAT ACTAA (SEQ ID NO: 1)), which is identical in all wildtype att sites, may be mutated in one or more positions. Other att sites that specifically recombine with other att sites can be constructed by altering nucleotides in and near the 7 base pair overlap region, bases 6-12 of the core region. Thus, recombination sites suitable for use in the methods, molecules, compositions, and vectors of the invention include, but are not limited to, those with insertions, deletions or substitutions of one, two, three, four, or more nucleotide bases within the 15 base pair core region (see U.S. Application Nos. 08/663,002, filed June 7, 1996 (now U.S. Patent No. 5,888,732) and 09/177,387, filed October 23, 1998, which describes the core region in further detail, and the disclosures of which are incorporated herein by reference in their entireties). Recombination sites suitable for use in the methods, compositions, and vectors of the invention also include those with insertions, deletions or substitutions of one, two, three, four, or more nucleotide bases within the 15 base pair core region that are at least 50% identical, at least 55% identical, at least 60% identical, at least 65% identical, at least 70% identical, at least 75% identical, at least 80% identical, at least 85% identical, at least 90% identical, or at least 95% identical to this 15 base pair core region.

Please amend paragraph [0215] as follows:

[0215] Analogously, the core regions in attB1, attP1, attL1 and attR1 are identical to one another, as are the core regions in attB2, attP2, attL2 and attR2. Nucleic acid molecules suitable for use with the invention also include those comprising insertions, deletions or substitutions of one, two, three, four, or more nucleotides within the seven base pair overlap region (TTTATAC, bases 6-12 in the core region, SEQ ID NO: 157). The overlap region is defined by the cut sites for the integrase protein and is the region where strand exchange takes place. Examples of such mutants, fragments, variants and derivatives include, but are not limited to, nucleic acid molecules in which (1) the thymine at position 1 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or adenine; (2) the thymine at position 2 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or adenine; (3) the thymine at position 3 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or adenine; (4) the adenine at position 4 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or thymine; (5) the thymine at position 5 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or adenine; (6) the adenine at position 6 of the seven bp overlap region has been deleted or substituted with a guanine, cytosine, or thymine; and (7) the cytosine at position 7 of the seven bp overlap region has been deleted or substituted with a guanine, thymine, or adenine; or any combination of one or more (*e.g.*, two, three, four, five, etc.) such deletions and/or substitutions within this seven bp overlap region. The nucleotide sequences of representative seven base pair core regions are set out below.

Please amend paragraph [0216] as follows:

[0216] Altered att sites have been constructed that demonstrate that (1) substitutions made within the first three positions of the seven base pair overlap (TTTATAC, SEQ ID NO: 157) strongly affect the specificity of recombination, (2) substitutions made in the last four positions (TTTATAC, SEQ ID NO: 157) only partially alter recombination specificity, and (3) nucleotide substitutions outside of the seven bp overlap, but elsewhere within the 15 base pair core region, do not affect specificity of recombination but do influence the efficiency of recombination. Thus, nucleic acid molecules and methods of the invention include those comprising or employing one, two, three, four, five, six, eight, ten, or more recombination sites which affect

recombination specificity, particularly one or more (*e.g.*, one, two, three, four, five, six, eight, ten, twenty, thirty, forty, fifty, etc.) different recombination sites that may correspond substantially to the seven base pair overlap within the 15 base pair core region, having one or more mutations that affect recombination specificity. Particularly preferred such molecules may comprise a consensus sequence such as NNNATAC (SEQ ID NO: 158) wherein "N" refers to any nucleotide (*i.e.*, may be A, G, T/U or C). Preferably, if one of the first three nucleotides in the consensus sequence is a T/U, then at least one of the other two of the first three nucleotides is not a T/U.

Please amend paragraph [0217] as follows:

[0217] The core sequence of each att site (attB, attP, attL and attR) can be divided into functional units consisting of integrase binding sites, integrase cleavage sites and sequences that determine specificity. Specificity determinants are defined by the first three positions following the integrase top strand cleavage site. These three positions are shown with underlining in the following reference sequence: CAACTTTTTTATAC AAAGTTG (SEQ ID NO: 2). Modification of these three positions (64 possible combinations) can be used to generate att sites that recombine with high specificity with other att sites having the same sequence for the first three nucleotides of the seven base pair overlap region. The possible combinations of first three nucleotides of the overlap region are shown in Table 1.

Please amend paragraph [0221] as follows:

[0221] For example, mutated att sites that may be used in the practice of the present invention include attB1 (AGCCTGCTTT TTTGTACAAA CTTGT (SEQ ID NO: 3)), attP1 (TACAGGTCAC TAATACCATC TAAGTAGTTG ATTCATAGTG ACTGGATATG TTGTGTTTTA CAGTATTATG TAGTCTGTTT TTTATGCAAA ATCTAATTTA ATATATTGAT ATTTATATCA TTTTACGTTT CTCGTTTCAGC TTTTTTGTAC AAAGTTGGCA TTATAAAAAA GCATTGCTCA TCAATTTGTT GCAACGAACA GGTCACATC AGTCAAAATA AAATCATTAT TTG (SEQ ID NO: 4)), attL1 (CAAATAATGA TTTTATTTTG ACTGATAGTG ACCTGTTCGT TGCAACAAAT TGATAAGCAA TGCTTTTTTA TAATGCCAAC TTTGTACAAA AAAGCAGGCT (SEQ ID NO: 5)), and attR1 (ACAAGTTTGT ACAAAAAAGC TGAACGAGAA ACGTAAAATG ATATAAATAT CAATATATTA AATTAGATT TGCATAAAAA ACAGACTACA

TAATACTGTA AAACACAACA TATCCAGTCA CTATG (SEQ ID NO: 6). Table 3 provides the sequences of the regions surrounding the core region for the wild type att sites (attB0, P0, R0, and L0) as well as a variety of other suitable recombination sites. Those skilled in the art will appreciate that the remainder of the site may be the same as the corresponding site (B, P, L, or R) listed above.

Table 3. Nucleotide sequences of att sites.		
attB0	AGCCTGCTTT TTTATACTAA CTTGAGC	(SEQ ID NO: <u>7</u>)
attP0	G TTCAGCTTT TTTATACTAA GTTGGCA	(SEQ ID NO: <u>8</u>)
attL0	AGCCTGCTTT TTTATACTAA GTTGGCA	(SEQ ID NO: <u>9</u>)
attR0	G TTCAGCTTT TTTATACTAA CTTGAGC	(SEQ ID NO: <u>10</u>)
attB1	AGCCTGCTTT TTTGTACAAA CTTGT	(SEQ ID NO: <u>11</u>)
attP1	G TTCAGCTTT TTTGTACAAA GTTGGCA	(SEQ ID NO: <u>12</u>)
attL1	AGCCTGCTTT TTTGTACAAA GTTGGCA	(SEQ ID NO: <u>13</u>)
attR1	G TTCAGCTTT TTTGTACAAA CTTGT	(SEQ ID NO: <u>14</u>)
attB2	ACCCAGCTTT CTTGTACAAA GTGGT	(SEQ ID NO: <u>15</u>)
attP2	G TTCAGCTTT CTTGTACAAA GTTGGCA	(SEQ ID NO: <u>16</u>)
attL2	ACCCAGCTTT CTTGTACAAA GTTGGCA	(SEQ ID NO: <u>17</u>)
attR2	G TTCAGCTTT CTTGTACAAA GTGGT	(SEQ ID NO: <u>18</u>)
attB5	CAACTTTATT ATACAAAGTT GT	(SEQ ID NO: <u>19</u>)
attP5	G TTCAACTTT ATTATACAAA GTTGGCA	(SEQ ID NO: <u>20</u>)
attL5	CAACTTTATT ATACAAAGTT GGCA	(SEQ ID NO: <u>21</u>)
attR5	G TTCAACTTT ATTATACAAA GTTGT	(SEQ ID NO: <u>22</u>)
attB11	CAACTTTTCT ATACAAAGTT GT	(SEQ ID NO: <u>23</u>)
attP11	G TTCAACTTT TCTATACAAA GTTGGCA	(SEQ ID NO: <u>24</u>)
attL11	CAACTTTTCT ATACAAAGTT GGCA	(SEQ ID NO: <u>25</u>)
attR11	G TTCAACTTT TCTATACAAA GTTGT	(SEQ ID NO: <u>26</u>)

Table 3. Nucleotide sequences of att sites.		
attB17	CAACTTTTGT ATACAAAGTT GT	(SEQ ID NO: <u>27</u>)
attP17	GTTCAACTTT TGTATACAAA GTTGGCA	(SEQ ID NO: <u>28</u>)
attL17	CAACTTTTGT ATACAAAGTT GGCA	(SEQ ID NO: <u>29</u>)
attR17	GTTCAACTTT TGTATACAAA GTTGT	(SEQ ID NO: <u>30</u>)
attB19	CAACTTTTTC GTACAAAGTT GT	(SEQ ID NO: <u>31</u>)
attP19	GTTCAACTTT TTCGTACAAA GTTGGCA	(SEQ ID NO: <u>32</u>)
attL19	CAACTTTTTC GTACAAAGTT GGCA	(SEQ ID NO: <u>33</u>)
attR19	GTTCAACTTT TTCGTACAAA GTTGT	(SEQ ID NO: <u>34</u>)
attB20	CAACTTTTTG GTACAAAGTT GT	(SEQ ID NO: <u>35</u>)
attP20	GTTCAACTTT TTGGTACAAA GTTGGCA	(SEQ ID NO: <u>36</u>)
attL20	CAACTTTTTG GTACAAAGTT GGCA	(SEQ ID NO: <u>37</u>)
attR20	GTTCAACTTT TTGGTACAAA GTTGT	(SEQ ID NO: <u>38</u>)
attB21	CAACTTTTTA ATACAAAGTT GT	(SEQ ID NO: <u>39</u>)
attP21	GTTCAACTTT TTAATACAAA GTTGGCA	(SEQ ID NO: <u>40</u>)
attL21	CAACTTTTTA ATACAAAGTT GGCA	(SEQ ID NO: <u>41</u>)
attR21	GTTCAACTTT TTAATACAAA GTTGT	(SEQ ID NO: <u>42</u>)

Please amend paragraph [0224] as follows:

[0224] The att system core integrase binding site comprises an interrupted seven base pair inverted repeat having the following nucleotide sequence:

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caactttnnnnnnnaagttg (SEQ ID NO: 43 39),

as well as variations thereof which can comprise either perfect or imperfect repeats.

Please amend paragraph [0227] as follows:

[0227] For example, it is believed that an attB site altered to have the following nucleotide sequence:

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caacttttnnnnnnnnaacaag (SEQ ID NO: 44 40),

will functionally interact with a cognate attP and generate attL and attR. However, whichever of the latter two recombination sites acquires the segment containing "caag" (located on the left side of the sequence shown above) will be rendered non-functional to subsequent recombination events. The above is only one of many possible alterations in the core integrase binding sequence which can render att sites non-functional after engaging in a single recombination event. Thus, single use recombination sites may be prepared by altering nucleotides in the seven base pair inverted repeat regions which abut seven base pair overlap regions of att sites. This region is represented schematically as:

CAAC TTT [Seven Base Pair Overlap Region] AAA GTTG.

Please amend paragraph [0228] as follows:

[0228] In generating single use recombination sites, one, two, three, four or more of nucleotides of the sequences CAACTTT (SEQ ID NO: 161) or AAAGTTG (SEQ ID NO: 162) (*i.e.*, the seven base pair inverted repeat regions) may be substituted with other nucleotides or deleted altogether. These seven base pair inverted repeat regions represent complementary sequences with respect to each other. Thus, alterations may be made in either seven base pair inverted repeat region in order to generate single use recombination sites. Further, when DNA is double stranded and one seven base pair inverted repeat region is present, the other seven base pair inverted repeat region will also be present on the other strand.

Please amend paragraph [0229] as follows:

[0229] Using the sequence CAACTTT (SEQ ID NO: 161) for illustration, examples of seven base pair inverted repeat regions which can form single use recombination sites include, but are not limited to, nucleic acid molecules in which (1) the cytosine at position 1 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, adenine, or thymine; (2) the adenine at position 2 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or thymine; (3) the adenine at position 3 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or thymine; (4) the cytosine at position 4 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, adenine, or thymine; (5) the thymine at position 5 of the seven base

pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or adenine; (6) the thymine at position 6 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or adenine; and (7) the thymine at position 7 of the seven base pair inverted repeat region has been deleted or substituted with a guanine, cytosine, or adenine; or any combination of one, two, three, four, or more such deletions and/or substitutions within this seven base pair region. Representative examples of nucleotide sequences of the above described seven base pair inverted repeat regions are set out below in Table 4.

Please amend paragraph [0256] as follows:

[0256] Type IA topoisomerases include *E. coli* topoisomerase I, *E. coli* topoisomerase III, eukaryotic topoisomerase II, archeal reverse gyrase, yeast topoisomerase III, *Drosophila* topoisomerase III, human topoisomerase III, *Streptococcus pneumoniae* topoisomerase III, and the like, including other type IA topoisomerases (see Berger, *Biochim. Biophys. Acta* 1400:3-18, 1998; DiGate and Mariani, *J. Biol. Chem.* 264:17924-17930, 1989; Kim and Wang, *J. Biol. Chem.* 267:17178-17185, 1992; Wilson, *et al.*, *J. Biol. Chem.* 275:1533-1540, 2000; Hanai, *et al.*, *Proc. Natl. Acad. Sci., USA* 93:3653-3657, 1996, U.S. Pat. No. 6,277,620, each of which is incorporated herein by reference). *E. coli* topoisomerase III, which is a type IA topoisomerase that recognizes, binds to and cleaves the sequence 5'-GCAACTT-3' (SEQ ID NO: 156), can be particularly useful in a method of the invention (Zhang, *et al.*, *J. Biol. Chem.* 270:23700-23705, 1995, which is incorporated herein by reference). A homolog, the traE protein of plasmid RP4, has been described by Li, *et al.*, *J. Biol. Chem.* 272:19582-19587 (1997) and can also be used in the practice of the invention. A DNA-protein adduct is formed with the enzyme covalently binding to the 5'-thymidine residue, with cleavage occurring between the two thymidine residues.

Please amend paragraph [0358] as follows:

[0358] Fig. 6 is a plasmid map of the pAd/CMV/V5-DEST vector, one example of a nucleic acid comprising all or a portion of a viral genome according to the present invention. The nucleotide sequence of the plasmid is provided in Table 6 (SEQ ID NO: 83). The plasmid contains the first 458 nucleotides of Ad5, including the left ITR and packaging sequence, followed the cytomegalovirus promoter (CMV) and the T7 promoter. The promoters are followed by a sequence containing selectable markers flanked by recombination sites attR1 and

attR2. Any other suitable pair of recombination sites might be employed as long as they are selected so as not to recombine with each other. After the attR2 site, the V5 epitope coding sequence is followed by stop codons in all three reading frames and the herpes virus thymidine kinase polyadenylation signal. This is followed by the nucleotides from position 3513 to the right end of the adenoviral genome including the right ITR. After the adenoviral sequences, are plasmid sequences including a plasmid origin of replication followed by the ampicillin resistance gene. The plasmid sequences are flanked by PacI restriction enzyme recognition sites. Thus, after replacement of the replaceable sequence with a sequence of interest flanked by attL1 and attL2 in a recombination reaction, an infectious viral genome can be prepared by digestion of the recombination reaction product with PacI to remove the plasmid sequences. In this particular embodiment, the viral genome is an adenoviral genome deleted in the E1 and E3 regions. The E1 function must be supplied *in trans* in order for the virus to replicate, for example, from the host cell as in 293 cells. The gene products of the E3 region are not required for replication.

Please amend paragraph [0374] as follows:

[0374] A recombinant adenoviral vector was constructed that expresses a suppressor tRNA. A map of a plasmid containing the adenoviral construct pAd-GW-TO/tRNA in which a suppressor tRNA is under the control of a tetracycline-inducible CMV promoter is shown in Fig. 7. The nucleotide sequence of pAd-GW-TO/tRNA is provided in Table 7 (SEQ ID NO: 84). An additional adenoviral construct expressing a suppressor tRNA is pAdenoTAG tRNA shown in Fig. 8. The nucleotide sequence of pAdenoTAG tRNA is provided in Table 8 (SEQ ID NO: 85). Table 9 (SEQ ID NO: 86) provides the nucleotide sequence of a Sau3A fragment that may be used to construct suppressor tRNA containing nucleic acid molecules of the invention (*e.g.*, pAdenoTag tRNA.) A transcription terminator is located at bases 600 to 606 of the fragment, the sequence corresponding to the suppressor tRNA is located at bases 512 to 593 of the fragment, the anti-codon is located at bases 545 to 547, and the tetracycline operator sequence is located at bases 474 to 511. The suppressor tRNA produced from this sequence suppresses the amber stop codon UAG. Those skilled in the art will appreciate that it is possible to prepare suppressors for opal and ochre stop codons by mutating the bases in the anti-codon to make the anti-codon the reverse complement of the stop codon. *i.e.*, TCA for the opal stop codon and TTA for the ochre stop codon. Other anti-codons may be used, for example, those employing

other bases in the wobble position. Constructing a suitable sequence from which to produce a desired suppressor tRNA (*e.g.*, by introducing one or more point mutations in a sequence) is routine in the art.

Please amend paragraph [0378] as follows:

[0378] A plasmid map of pAd/PL-DEST[™] is provided in Figure 9 and the sequence of the plasmid is provided in Table 10 (SEQ ID NO: 87).

Please amend paragraph [0379] as follows:

[0379] A kit may also comprise one or more control reagents. For example, a kit may comprise an adenoviral vector comprising a detectable marker that may be used as a control for transfection of cells and infection of cells. One suitable control reagent is pAd/CMV/V5-GW/*lacZ* control. A map of the pAd/CMV/V5-GW/*lacZ* plasmid is provide as Fig. 10 and the nucleotide sequence of the plasmid is provided as Table 11 (SEQ ID NO: 88).

Please amend paragraph [0384] as follows:

[0384] The pAd/CMV/V5-DEST[™] vector (36686 bp, SEQ ID NO: 83) contains the following features.

Please amend paragraph [0384] as follows:

[0384] The pAd/PL-DEST[™] vector (34864 bp, SEQ ID NO: 87) contains the following features.

Please amend paragraph [0387] as follows:

[0387] The plasmid, pAd/CMV/V5-GW/*lacZ*, is included and may be used as a positive expression control in the mammalian cell line of choice. pAd/CMV/V5-GW/*lacZ* (Fig. 10) is a 37567 bp vector (SEQ ID NO: 88) expressing β -galactosidase, and was generated using the GATEWAY[™] LR recombination reaction between an entry clone containing the *lacZ* gene and pAd/CMV/V5-DEST[™]. β -galactosidase is expressed as a C-terminal V5 fusion polypeptide with a molecular weight of approximately 120 kDa.

Please amend paragraph [0394] as follows:

[0394] pAd/CMV/V5-DEST™ is a C-terminal fusion vector; however, this vector may be used to express native polypeptides or C-terminal fusion polypeptides. A sequence of interest encoding a polypeptide of interest must contain an ATG initiation codon in the context of a Kozak consensus sequence for proper initiation of translation in mammalian cells (Kozak, M. (1987). *Nucleic Acids Res.* 15, 8125-8148. Kozak, M. (1991). *J. Cell Biology* 115, 887-903. Kozak, M. (1990). *Proc. Natl. Acad. Sci. USA* 87, 8301-8305.). An example of a Kozak consensus sequence is (G/A)NNATGG (SEQ ID NO: 159). The ATG initiation codon is underlined. Note that other sequences are possible, but the G or A at position -3 and the G at position +4 are the most critical for function (shown in bold).

Please amend paragraph [0400] as follows:

[0400] To confirm that a sequence of interest is in the correct orientation and in frame with a fusion tag (if present), an expression construct may be sequenced. The following primer binding may be used to sequence an expression construct. Refer to the Figs. 8 and 9 for the location of the primer binding sites. The pAd/CMV/V5-DEST™ vector contains the T7 promoter/priming site 5'-TAATACGACTCACTATAGGG-3' (SEQ ID NO: 45) and the V5 (C-term) reverse priming site 5'-ACCGAGGAGAGGGTTAGGGAT-3' (SEQ ID NO: 46). The pAd/PL-DEST™ vector contains the pAd forward priming site 5'-GACTTTGACCGTTTACGTGGAGAC-3' (SEQ ID NO: 47) and the pAd reverse priming site 5'-CCTTAAGCCACGCCCACACATTTC-3' (SEQ ID NO: 48).

Please amend paragraph [0493] as follows:

[0493] Nucleic acid molecules of the invention may be used to express a polypeptide of interest as part of a fusion polypeptide. Numerous suitable fusion partners are known to those in the art. For example a polypeptide of interest may be expressed as a fusion polypeptide containing the V5 epitope. Antibodies to detect the V5 epitope, a 14 amino acid epitope derived from the P and V proteins of the paramyxovirus, SV5 having the sequence GKPIPNPLLGLDST (SEQ ID NO: 49) (Southern, J.A., *et al.*, *J. Gen. Virol.* 72:1551-1557 (1991)) are commercially available from Invitrogen Corporation, Carlsbad, CA, for example, Anti-V5 Antibody catalog no. R960-25, Anti-V5-HRP Antibody catalog no. R961-25, and catalog no. Anti-V5-AP Antibody R962-

25. A polypeptide of interest may be expressed as a fusion polypeptide with a polyhistidine sequence. Antibodies to detect a polyhistidine sequence are commercially available from Invitrogen Corporation, Carlsbad, CA. For example, Anti-His(C-term) Antibody catalog no. R930-25, Anti-His(C-term)-HRP Antibody catalog no. R931-25, and Anti-His(C-term)-AP Antibody R932-25, all of which detect a C-terminal polyhistidine (6xHis) tag and require the free carboxyl group for detection (*i.e.*, detect the sequence HHHHHH-COOH (SEQ ID NO: 165), see Lindner, P., *et al.*, *BioTechniques* 22:140-149 (1997)).

Please amend paragraph [0493] as follows:

[0493] pIB/V5-His-DEST contains the following features:

A map of pIB/V5-His-DEST is provided in Figure 15 and the nucleotide sequence of the vector is provided in Table 12 (SEQ ID NO: 89).

Please amend paragraph [0498] as follows:

[0498] Baculovirus immediate-early promoters utilize the host cell transcription machinery and do not require viral factors for activation. The *OpIE2* promoter is from the baculovirus *Orgyia pseudotsugata* multicapsid nuclear polyhedrosis virus (*OpMNPV*) and drives constitutive expression of the gene of interest in pIB/V5-His-DEST. The virus' natural host is the Douglas fir tussock moth; however, the promoter allows protein expression in *Lymantria dispar* (LD652Y), *Spodoptera frugiperda* cells (Sf9) (Hegedus, D.D., *et al.*, *Gene* 207:241-249 (1998); Pfeifer, T.A., *et al.*, *Gene* 188:183-190 (1997)), *Sf21* (Invitrogen), *Trichoplusia ni* (High Five™, Invitrogen Corporation, Carlsbad, CA), *Drosophila* (Kc1, S2) (Hegedus, D.D., *et al.*, *Gene* 207:241-249 (1998); Pfeifer, T.A., *et al.*, *Gene* 188:183-190 (1997)) and mosquito cell lines. The *OpIE2* promoter has been sequenced and analyzed. The sequence of the promoter is provided in Figure 16 (SEQ ID NO: 126).

Please amend paragraph [0500] as follows:

[0500] The *OpIE2* promoter has been analyzed by deletion analysis using a CAT reporter in both *Lymantria dispar* (LD652Y) and *Spodoptera frugiperda* (Sf9) cells. Expression in Sf9 cells was much higher than in LD652Y cells. Deletion analysis revealed that sequence up to -275 base pairs from the start of transcription is necessary for maximal expression (Theilmann, D.A., and Stewart, S., *Virology* 187:84-96 (1992)). Additional sequence beyond -275 may broaden the

host range expression of this plasmid to other insect cell lines. In addition, an 18 bp element appears to be required for expression. This 18 bp element is repeated almost completely in three different locations and partially at six other locations. These are marked in Fig. 16 (SEQ ID NO: 126). Elimination of the three major 18 bp elements reduces expression to basal levels (Theilmann, D.A., and Stewart, S., *Virology* 187:84-96 (1992)). Primer extension experiments revealed that transcription initiates equally from either the C or the A indicated. These two transcriptional start sites are adjacent to a CAGT sequence motif that has been shown to be conserved in a number of early genes (Blissard, G.W., and Rohrmann, G.F., *Virology* 170:537-555 (1989)).

Please amend paragraph [0506] as follows:

[0506] A sequence of interest may contain a Kozak consensus sequence with an ATG initiation codon for proper initiation of translation (Kozak, M., *Nucleic Acids Res.* 15:8125-8148 (1987); Kozak, M., *J. Cell Biology* 115:887-903 (1991); Kozak, M., *Proc. Natl. Acad. Sci. USA* 87:8301-8305 (1990)). An example of a Kozak consensus sequence is provided below. Other sequences are possible, but the G or A at position -3 and the G at position +4 are the most critical for function (shown in bold). The ATG initiation codon is shown underlined.

(G/A)NN**ATGG** (SEQ ID NO: 159)

Please amend paragraph [0511] as follows:

[0511] The recombination region of the expression clone resulting from pIB/V5-His-DEST × entry clone is shown in Fig. 17 (SEQ ID NO: 149). Shaded regions correspond to those DNA sequences transferred from the entry clone into pIB/V5-His-DEST by recombination. Non-shaded regions are derived from the pIB/V5-His-DEST vector. The underlined nucleotides flanking the shaded region correspond to bases 609 and 2292, respectively, of the pIB/V5-His-DEST vector sequence.

Please amend paragraph [0512] as follows:

[0512] To confirm that a coding sequence on the sequence of interest is in frame with the C-terminal V5 epitope and polyhistidine tag, the expression construct may be sequenced, for

example, using the OpIE2 Forward and Reverse primer sequences. Refer to Fig. 17 (SEQ ID NO: 149) for the sequence and location of the primer binding sites.

Please amend paragraph [0564] as follows:

[0564] A baculovirus genome containing a recombination cassette (DEST) bounded by attR recombination sites compatible with GATEWAY™ entry vectors (Invitrogen Corporation, Carlsbad, CA) was constructed. Two transposition cassettes were constructed one with and one without the mellitin leader sequence. A schematic representation of the cassette without the mellitin sequence is provided in Fig. 19A and the sequence is provided in Table 13 (SEQ ID NO: 90). A schematic representation of the cassette with the mellitin sequence is provided in Fig. 19B and the sequence is provided in Table 14 (SEQ ID NO: 91). The DEST cassettes contain the HSV thymidine kinase (TK) gene driven by an immediate early promoter (IE-0 promoter) and the lacZ gene driven by a late promoter (P10 promoter). The genes permit identification of non-recombinant virus using a blue white screening protocol and selection against non-recombinant viruses using ganciclovir. The cassettes also contain the V5 epitope and a 6-Histidine sequence outside the attR2 recombination site. The sequence of the cassette contains a recognition site for the restriction enzyme *Bsu36I* (and its isoschizomer *AocI*) that is used to linearize the viral genome.

Please amend paragraph [0572] as follows:

[0572] In some embodiments, the promoters are tightly regulated. For example, in some embodiments, the promoters are not active unless one or more transactivators are present. In some embodiments, the nucleic acid sequences that function as promoters include, but are not limited to, the AcMNPV ORF 25 promoter sequence (SEQ ID NO: 98), the AcMNPV lef 3 promoter sequence (SEQ ID NO: 99), the AcMNPV TLP promoter sequence (SEQ ID NO: 100), the AcMNPV homologous repeat 5 sequence (SEQ ID NO: 101), other baculovirus homologous repeat sequences, and the like. The nucleic acid sequences of the AcMNPV ORF 25 promoter sequence (SEQ ID NO: 98), the AcMNPV lef 3 promoter sequence (SEQ ID NO: 99), the AcMNPV TLP promoter sequence (SEQ ID NO: 100), and the AcMNPV homologous repeat 5 sequence (SEQ ID NO: 101) are provided in Table 15 (SEQ ID NOS: 98-101).

Please amend paragraph [0573] as follows:

[0573] In some embodiments, the promoters discussed above are not active unless one or more transactivators are present. One suitable transactivator is the baculoviral IE-1 protein. The IE-1 promoter sequence (SEQ ID NO: 102), coding sequence (SEQ ID NO: 103), and polypeptide sequence (SEQ ID NO: 104) are provided in Table 16 (SEQ ID NOS: 102-104). The transactivator may be provided on the same nucleic acid molecule comprising the promoter sequence or on another nucleic acid molecule (*e.g.*, plasmid, virus, host cell genome, etc.). In some embodiments, the promoter sequence operably linked to a sequence of interest may be on one nucleic acid molecule (*e.g.* a plasmid) and the transactivator sequence may be on a different nucleic acid molecule (*e.g.*, a virus such as a baculovirus). The nucleic acid molecule comprising the promoter sequence operably linked to a sequence of interest may be introduced into a host cell, for example, by transfection. The sequence of interest is not expressed or is substantially not expressed in the absence of a transactivator. In some embodiments, the host cell may be a eukaryotic cell, for example, a mammalian cell or an insect cell. The host cell comprising the nucleic acid molecule comprising the promoter sequence operably linked to a sequence of interest may be further contacted with a second nucleic acid molecule comprising the a sequence encoding the transactivator. Upon expression of the transactivator, the sequence of interest is expressed. In some embodiments, the transactivator polypeptide may be directly transfected into cells comprising the nucleic acid molecule comprising the promoter sequence operably linked to a sequence of interest. Such transactivator polypeptides may be present as native polypeptides or as fusion polypeptides, for example, as fusions with the herpesvirus VP22 polypeptide.

Please amend paragraph [0576] as follows:

[0576] The sequences provided in Table 15 (SEQ ID NOS: 98-101) are capable of functioning as conditionally activated promoters. The present invention also comprises portions of the sequences of Table 15 (SEQ ID NOS: 98-101) that function as conditionally active promoters. Such promoters may be activated by the IE-1 polypeptide. Such portions may comprise at least 50%, 60%, 70%, 80%, 90%, 95%, or more of one or more of the sequences in Table 15 (SEQ ID NOS: 98-101).

Please amend paragraph [0578] as follows:

[0578] The OpIE-1 promoter was replaced with long or short versions of AcMNPV gp64 or pe38 promoters, using a Topoisomerase I mediated ligation strategy (Fig. 21). The AcMNPV gp64 and pe38 promoters were amplified from cosmid #58 (comprising AcMNPV bases 99803-132856 from a cosmid library of the AcMNPV genome, Harwood *et al.* Virology. 250:113-134, 1998) with promoter-specific primers that were appended at their 5' ends with antisense TOPO sites and six additional bases (Fig. 21). pIB/V5-His was amplified with primers that included an anti-sense topoisomerase site and a six base sequence that becomes an overhang following topoisomerase binding. Each promoter (gp64s is illustrated) was amplified with similarly designed primers. Following binding, the overhangs annealed and were ligated by the enzyme. The oligonucleotide sequences are given below. The antisense topoisomerase sites are underlined.

17852 pIB Neg For TGAGTCAAAGGGCTGCCGGGCTGCAGCACTG (SEQ ID NO: 51)
 17853 pIB Neg Rev CGGAACAAAGGGCATGACCAAAATCCCTTAACG (SEQ ID NO: 52)
 17849 gp64 For GACTCAAAAGGGCTTGCTTGTGTGTTCTTATTG (SEQ ID NO: 53)
 17850 gp64s Rev GTTCCGAAAGGGTGTGTCACGTAGGCCAGATAAC (SEQ ID NO: 54)
 17851 gp64L Rev GTTCCGAAAGGGAATAATCGATTAAAGGGTGTAATACTC (SEQ ID NO: 55)
 17857 pe38 For GACTCAAAAGGGTTTGCTTATTGGCAGGCTCTCC (SEQ ID NO: 56)
 17858 pe38s Rev GTTCCGAAAGGGTATCTGTCCCCCACTCAGGC (SEQ ID NO: 57)
 17859 pe38L Rev GTTCCGAAAGGGTAAAGTTGATGCGGCGACGGC (SEQ ID NO: 58)

Please amend paragraph [0598] as follows:

[0598] The plasmid pVL1393 GST p10 stop (Fig. 34) was digested with *Bam*HI and *Nco*I. A 15 kb band was purified (removing the GST tag) to which was ligated, a double stranded oligonucleotide containing the melittin signal flanked by *Bam*HI and *Nco*I overhangs. The ligated products were transformed into TOP10 bacteria and the correct clones verified by restriction digestion and sequencing. This plasmid (pVL1393 Mel Stop) contained a stop codon downstream of the *attR2* site that had to be removed by PCR directed site-specific mutagenesis. Primers *Eco*RI sense (GAATTCCAGCTGAGCGCCGGTCGCTAC SEQ ID NO: 59) and *Bgl*II antisense (AGATCTTCATTCACTTCACTTTGTACAAG SEQ ID NO: 60) were used to

amplify a fragment from pVL1393 Mel Stop, and the resulting 209 bp fragment was cut with *EcoRI* and *BglIII*, and then ligated to pVL1393 Mel Stop cut with the same enzymes. The correct clone was identified by restriction digestion and sequence analysis. This gave pVL1393 Mel no-Stop.

Please amend paragraph [0599] as follows:

[0599] Next, a V5-His tag was added downstream of the *attR2* site. The V5/His sequence was amplified from pIND/V5-His-TOPO (catalog no. K101001, Invitrogen Corporation, Carlsbad, CA) with primers containing *BglIII* sites at each 5' end (V5/His 5': AGATCTGGGGAAGCCTATCCCTAACCC SEQ ID NO: 61; V5/His 3': AGATCTTCAATGGTGATGGTGATGATGACCGG SEQ ID NO: 62). The amplicon was cloned into pCR2.1 TOPO TA and then removed by *BglIII* digestion and ligated to pVL1393 Mel no-Stop cut with *BglIII*. The correct clones were identified and verified by sequencing. This resulted in plasmid pVL1393 Mel/V5-His. The melittin signal was subsequently removed by replacing the melittin-*attR1* sequence from pVL1393 Mel/V5-His with the *attR1* sequence from pVL1393-Native, using *NotI* and *BamHI*. The correct plasmid clones were verified by sequencing and dubbed pVL1393 V5/His. Fig. 27 shows a schematic of the strategy for construction of BaculoDirect™ DNA. In Fig. 27A, the GATEWAY™ counter selection cassette was cloned in the polyhedrin locus of wt AcMNPV by homologous recombination between with pVL1393 V5-His. The resulting virus DNA contains the counter selection cassette bounded by *attR* sites, immediately downstream of the polyhedrin promoter and upstream of the V5/His tag. In Fig. 27B, LR recombination between BaculoDirect™ DNA and an entry clone results in an expression virus in which the counter selection cassette is replaced by gene of interest.

Please amend paragraph [0626] as follows:

[0626] The present invention permits one skilled in the art to create replication-incompetent lentiviruses to deliver and express one or more sequences of interest (*e.g.*, genes). These viruses (based loosely on HIV-1) can effectively transduce dividing and non-dividing mammalian cells (in culture or *in vivo*), thus broadening the possible applications beyond those of traditional Moloney (MLV)-based retroviral systems (Clontech, Stratagene, etc.). Directional TOPO and GATEWAY™ lentiviral vectors have been created to clone one or more genes of interest with a V5 epitope, if desired. The vectors also carry the blasticidin resistance gene (*bsd*) to allow for

the selection of transduced cells. Without additional modifications, these vectors can theoretically accommodate up to ~6 kb of foreign gene. Three supercoiled packaging plasmids (gag/pol, rev and VSV-G envelope) are provided to supply helper functions and viral proteins in *trans*. Finally, an optimized producer cell line (293FT) is provided that will facilitate production of high titer virus. A schematic representation of the production of a nucleic acid molecule comprising all or a portion of a lentiviral genome is shown in Figure 35. Plasmid maps of vectors adapted for use with GATEWAY™ and topoisomerase cloning in the production of nucleic acid molecules comprising all or a portion of a lentiviral genome are shown in Figures 36A (pLenti6/V5-DEST), 36B (pLenti6/V5-D-TOPO®), 36C (pLenti4/V5-DEST), and 36D (pLenti6/UbC/V5-DEST) respectively. The nucleotide sequences of the plasmids are provided in Tables 17-20 (SEQ ID NOS: 105-108, respectively). Plasmid maps of the three packaging plasmids pLP1, pLP2, and pLP/VSVG are shown in Figures 37A, 37B, and 37C respectively and the nucleotide sequences of these plasmids are provided as Tables 21 (SEQ ID NO: 109), 22 (SEQ ID NO: 110), and 23 (SEQ ID NO: 111), respectively.

Please amend paragraph [0634] as follows:

[0634] The oligonucleotides used for directional adaptation are listed below:

EcoRI (5' end): Non-regenerative site

Topo-D1 5' P-AATTGATCCCTTCACCGACATAGTACAG 3' (SEQ ID NO: 63)

Topo-D2 5' P-GGTGAAGGGATC 3' (SEQ ID NO: 64)

XhoI (3' end): Regenerative site

Topo-D6 5' P-TCGAGCCCTTGACATAGTACAG 3' (SEQ ID NO: 65)

Topo-D7* 5' P-AAGGGC 3' (SEQ ID NO: 66)

Please amend paragraph [0776] as follows:

[0776] Table 26 provides some of the characteristics of the vector pLP2. The complete sequence is provided as Table 22 (SEQ ID NO: 110). A plasmid map is provided as Figure 37B.

Please amend paragraph [0777] as follows:

[0777] Table 27 provides some of the characteristics of the vector pLP/VSVG. The complete sequence is provided as Table 23 (SEQ ID NO: 111). A plasmid map is provided as Figure 37C.

Please amend paragraph [0781] as follows:

[0781] pLenti6/V5-DEST™ is an 8.7 kb vector adapted for use with the GATEWAY™ Technology, and is designed to allow high-level expression of recombinant fusion proteins in dividing and non-dividing mammalian cells using Invitrogen's ViraPower™ Lentiviral Expression System. A map of the vector is provided as Figure 36A and the sequence of the vector is provided as Table 17 (SEQ ID NO: 105).

Please amend paragraph [0784] as follows:

[0784] The pLenti4/V5-DEST and pLenti6/V5-DEST vectors use the human CMV immediate early promoter to allow high-level, constitutive expression of the gene of interest in mammalian cells (Andersson *et al.*, 1989; Boshart *et al.*, 1985; Nelson *et al.*, 1987). The sequence of the pLenti4/V5-DEST plasmid is provided as Table 19 (SEQ ID NO: 107). Although highly active in most mammalian cell lines, activity of the viral CMV promoter can be down-regulated in some cell lines due to methylation (Curradi *et al.*, 2002, *Mol. Cell. Biol.* 22, 3157-3173), histone deacetylation (Rietveld *et al.*, 2002, *EMBO J.* 21, 1389-1397), or both.

Please amend paragraph [0785] as follows:

[0785] The pLenti6/UbC/V5-DEST vector uses the human UbC promoter to allow constitutive, but more physiological levels of expression from the gene of interest in mammalian cells (Marinovic *et al.*, 2000, *Biophys. Res. Comm.* 274, 537-541). The sequence of the pLenti6/UbC/V5-DEST plasmid is provided as Table 20 (SEQ ID NO: 108). When compared to the CMV promoter, the UbC promoter is generally 2-4 fold less active. The UbC promoter is not down-regulated, making it useful for transgenic studies (Gill *et al.*, 2001, *Gene Ther.* 8, 1539-1546; Lois *et al.*, 2002, *Science* 295, 868-872; Marinovic *et al.*, 2000; Schorpp *et al.*, 1996, *Nuc. Acids Res.* 24, 1787-1788; Yew *et al.*, 2001, *Mol. Ther.* 4, 75-82). The human ubiquitin C (UbC) promoter (in pLenti6/UbC/V5-DEST) allows high-level expression of recombinant protein in most mammalian cell lines (Wulff *et al.*, 1990, *FEBS Lett.* 261, 101-105) and in virtually all tissues tested in transgenic mice (Schorpp *et al.*, 1996). The diagram below shows the features of the UbC promoter as described by Neno *et al.*, 1996 *Gene* 175, 179-185.

Please amend paragraph [0791] as follows:

[0791] pLenti4/V5-DEST, pLenti6/V5-DEST, and pLenti6/UbC/V5-DEST are C-terminal fusion vectors. To express a fusion polypeptide of a polypeptide encoded by a sequence of interest with the V5 epitope coding sequence present in the vector, a sequence of interest must contain an ATG initiation codon in the context of a Kozak translation initiation sequence for proper initiation of translation in mammalian cells (Kozak, 1987; Kozak, 1991; Kozak, 1990). An example of a Kozak consensus sequence is (G/A)NN**ATGG** (SEQ ID NO: 159). Other sequences are possible, but the G or A at position -3 and the G at position +4 are the most critical for function (shown in bold). The ATG initiation codon is underlined. The reading frame of the polypeptide encoded by the sequence of interest must be in frame with the C-terminal tag containing the V5 epitope after recombination and the sequence of interest must not contain a stop codon in this reading frame. The C-terminal peptide containing the V5 epitope and the attB2 site will add approximately 4.5 kDa to the size of the polypeptide encoded by the sequence of interest.

Please amend paragraph [0796] as follows:

[0796] Figure 46A (SEQ ID NO: 150) provides a diagram of the recombination region of pLenti6/V5-DESTTM or pLenti4/V5-DEST after a recombination reaction with a sequence of interest. Shaded regions correspond to the sequence of interest transferred from the entry clone into the pLenti6/V5-DESTTM vector by recombination. Non-shaded regions are derived from the pLenti6/V5-DESTTM or pLenti4/V5-DEST vector. Bases 2448 and 4130 of the pLenti4/V5-DEST and pLenti6/V5-DESTTM sequences are marked. Restriction sites are labeled to indicate the actual cleavage site.

Please amend paragraph [0797] as follows:

[0797] Figure 46B (SEQ ID NO: 151) shows the recombination region of the expression clone resulting from pLenti6/UbC/V5-DEST x entry clone. Note that this diagram does not contain the complete sequence of the UbC promoter. For a diagram of the UbC promoter see Figures 46C and 46D (SEQ ID NO: 136). Shaded regions in Figure 46B correspond to those DNA sequences transferred from the entry clone into the pLenti6/UbC/V5-DEST vector by recombination. Non-shaded regions are derived from the pLenti6/UbC/V5-DEST vector. Bases 3079 and 4762 of the pLenti6/UbC/V5-DEST sequence are marked.

Please amend paragraph [0799] as follows:

[0799] To confirm that a gene of interest is in frame with the C-terminal tag, sequence the expression construct, if desired. Refer to Figure 46 for the location of the recommended primer binding sites (CMV or UbC forward priming site and V5(C-term) reverse priming site) to use to sequence the expression construct. To sequence a pLenti4/V5-DEST or pLenti6/V5-DEST construct, the CMV forward primer 5'-CGCAAATGGGCGGTAGGCGTG-3' (SEQ ID NO: 66) and V5(C-term) reverse primer 5'-ACCGAGGAGAGGGTTAGGGAT-3' (SEQ ID NO: 67) can be used. To sequence a pLenti6/UbC/V5-DEST construct, the UB forward primer 5'-TCAGTGTTAGACTAGTAAATTG-3' (SEQ ID NO: 68) and the V5(C-term) reverse primer 5'-ACCGAGGAGAGGGTTAGGGAT-3' (SEQ ID NO: 69) can be used.

Please amend paragraph [0802] as follows:

[0802] The pLenti6/V5-DEST[™] vector (8688 bp, SEQ ID NO: 105) contains the following features at the indicated locations. The locations of the features in the pLenti6/V5-DEST plasmid are as follows: RSV/5' LTR hybrid promoter bases 1-410; RSV promoter bases 1-229; HIV-1 5' LTR bases 230-410; 5' splice donor base 520; HIV-1 psi (ψ) packaging signal bases 521-565; HIV-1 Rev response element (RRE) bases 1075-1308; 3' splice acceptor base 1656; 3' splice acceptor base 1684; CMV promoter bases 1809-2392; *attR1* site: bases 2440-2564; Chloramphenicol resistance gene (*Cm^R*) bases 2673-3332; *ccdB* gene bases 3674-3979; *attR2* site bases 4020-4144; V5 epitope bases 4197-4238; SV40 early promoter and origin bases 4293-4602; EM7 promoter bases 4657-4723; Blasticidin resistance gene bases 4724-5122; Δ U3/3' LTR bases 5208-5442; Δ U3 bases 5208-5261; 3' LTR: bases 5262-5442; SV40 polyadenylation signal bases 5514-5645; *bla* promoter bases 6504-6602; Ampicillin (*bla*) resistance gene bases 6603-7463; and pUC origin bases 7608-8281.

Please amend paragraph [0803] as follows:

[0803] The pLenti4/V5-DEST vector(8634 nucleotides, SEQ ID NO: 107) contains the following features at the indicated locations: RSV/5' LTR hybrid promoter bases 1-410; RSV promoter bases 1-229; HIV-1 5' LTR bases 230-410; 5' splice donor base 520; HIV-1 psi (ψ) packaging signal bases 521-565; HIV-1 Rev response element (RRE) bases 1075-1308; 3' splice acceptor base 1656; 3' splice acceptor base 1684; CMV promoter bases 1809-2392; *attR1* site bases 2440-2564; Chloramphenicol resistance gene (Cm^{R}) bases 2673-3332; *ccdB* gene bases 3674-3979; *attR2* site bases 4020-4144; V5 epitope bases 4197-4238; SV40 early promoter and origin bases 4293-4602; EM7 promoter bases 4621-4687; Zeocin™ resistance gene bases 4688-5062; $\Delta\text{U3}/3'$ LTR bases 5154-5388; ΔU3 bases 5154-5207; 3' LTR bases 5208-5388; SV40 polyadenylation signal bases 5460-5591; *bla* promoter bases 6450-6548; Ampicillin (*bla*) resistance gene bases 6549-7409; and the pUC origin bases 7554-8227.

Please amend paragraph [0804] as follows:

[0804] The pLenti6/UbC/V5-DEST vector (9320 nucleotides, SEQ ID NO: 108) contains the following features at the indicated locations: RSV/5' LTR hybrid promoter bases 1-410; RSV promoter bases 1-229; HIV-1 5' LTR bases 230-410; 5' splice donor base 520; HIV-1 psi (ψ) packaging signal bases 521-565; HIV-1 Rev response element (RRE) bases 1075-1308; 3' splice acceptor base 1656; 3' splice acceptor base 1684; UbC promoter bases 1798-3016; *attR1* site bases 3072-3196; Chloramphenicol resistance gene (Cm^{R}) bases 3305-3964; *ccdB* gene bases 4306-4611; *attR2* site bases 4652-4776; V5 epitope bases 4829-4870; SV40 early promoter and origin bases 4925-5234; EM7 promoter bases 5289-5355; Blasticidin resistance gene bases 5356-5754; $\Delta\text{U3}/3'$ LTR bases 5840-6074; ΔU3 bases 5840-5893; 3' LTR bases 5894-6074; SV40 polyadenylation signal bases 6146-6277; *bla* promoter bases 7136-7234; Ampicillin (*bla*) resistance gene bases 7235-8095; and the pUC origin bases 8240-8913.

Please amend paragraph [0805] as follows:

[0805] The following protocol may be used to clone a nucleic acid segment using topoisomerase. Other protocols known to those skilled in the art are also suitable. An example of another suitable protocol may be found in the pENTR Directional TOPO® Cloning Kit manual available from Invitrogen Corporation, Carlsbad, CA (catalog number 25-0434).

Step	Action
Design PCR Primers	Include the 4 base pair sequences (CACC, <u>SEQ ID NO: 163</u>) necessary for directional cloning on the 5' end of the forward primer. Design the primers such that a gene of interest will be optimally expressed and fused in frame with the V5 epitope tag, if desired.

Please amend paragraph [0809] as follows:

[0809] The sequences of CMV Forward and V5(C-term) Reverse sequencing primers. Two micrograms of each primer are as follows:

CMV Forward 5'-CGCAAATGGGCGGTAGGCGTG-3' (SEQ ID NO: 66)

V5(C-term) Reverse 5'-ACCGAGGAGAGGGTTAGGGAT-3' (SEQ ID NO: 67)

Please amend paragraph [0819] as follows:

[0819] In this system, PCR products are directionally cloned by adding four bases to the forward primer (CACC, SEQ ID NO: 163). The overhang in the cloning vector (GTGG, SEQ ID NO: 164) invades the 5' end of the PCR product, anneals to the added bases, and stabilizes the PCR product in the correct orientation. Inserts can be cloned in the correct orientation with efficiencies equal to or greater than 90%. A schematic representation of the process is shown in Figure 47 (SEQ ID NO: 137).

Please amend paragraph [0821] as follows:

[0821] When designing a forward PCR primer, consider the points below. Refer to Figure 48 (SEQ ID NO: 138) for a diagram of the TOPO[®] Cloning site for pLenti6/V5-D-TOPO[®].

Please amend paragraph [0822] as follows:

[0822] To enable directional cloning, the forward PCR primer **MUST** contain the sequence, CACC (SEQ ID NO: 163), at the 5' end of the primer. The 4 nucleotides, CACC (SEQ ID NO: 163), base pair with the overhang sequence, GTGG (SEQ ID NO: 164), in the pLenti6/V5-D-TOPO[®] vector.

Please amend paragraph [0823] as follows:

- [0823] The sequence of interest should include a Kozak translation initiation sequence with an ATG initiation codon for proper initiation of translation (Kozak, 1987; Kozak, 1991; Kozak, 1990). An example of a Kozak consensus sequence is (G/A)NNATGG (SEQ ID NO: 159). Other sequences are possible, but the G or A at position -3 and the G at position +4 are the most critical for function (shown in bold). The ATG initiation codon is underlined.

Please amend paragraph [0824] as follows:

- [0824] Below is the DNA sequence of the N-terminus of a theoretical protein and the proposed sequence for a forward PCR primer. The ATG initiation codon is underlined.

DNA sequence: 5'-ATG GGA TCT GAT AAA (SEQ ID NO: 69)

Proposed Forward PCR primer: 5'-C ACC ATG GGA TCT GAT AAA (SEQ ID NO: 70)

If the forward PCR primer is designed as above, then the primer includes the 4 nucleotides, CACC (SEQ ID NO: 163), required for directional cloning, and the ATG initiation codon falls within the context of a Kozak sequence (see boxed sequence), allowing proper translation initiation of the PCR product in mammalian cells. The first three base pairs of the PCR product following the 5' CACC (SEQ ID NO: 163) overhang will constitute a functional codon.

Please amend paragraph [0825] as follows:

- [0825] When designing a reverse PCR primer, consider the points below. Refer to Figure 48 (SEQ ID NO: 152) for a diagram of the TOPO[®] Cloning site for pLenti6/V5-D-TOPO[®]. To ensure that the PCR product clones directionally with high efficiency, the reverse PCR primer should not be complementary to the overhang sequence GTGG (SEQ ID NO: 164) at the 5' end. A one base pair mismatch can reduce the directional cloning efficiency from 90% to 50%, increasing the likelihood of the PCR product cloning in the opposite orientation (see below). Evidence of PCR products cloning in the opposite orientation from a two base pair mismatch has not been observed.

Please amend paragraph [0827] as follows:

[0827] First Example of Reverse Primer Design. Below is the sequence of the C-terminus of a theoretical protein. The stop codon is underlined.

DNA sequence: AAG TCG GAG CAC TCG ACG ACG GTG TAG-3' (SEQ ID NO: 71)

Please amend paragraph [0828] as follows:

[0828] To fuse the protein in frame with the C-terminal tag in pLenti6/V5-D-TOPO[®], design the reverse PCR primer to start with the codon just up-stream of the stop codon, but the last two codons contain GTGG (SEQ ID NO: 164, underlined below), which is identical to the 4 bp overhang sequence. As a result, the reverse primer will be complementary to the 4 bp overhang sequence, increasing the probability that the PCR product will clone in the opposite orientation. This situation should be avoided.

DNA sequence: AAG TCG GAG CAC TCG ACG ACG GTG TAG-3' (SEQ ID NO: 71)

Proposed Reverse PCR primer sequence: TG AGC TGC TGC CAC AAA-5' (SEQ ID NO: 160)

Please amend paragraph [0831] as follows:

[0831] Below is the sequence for the C-terminus of a theoretical protein. The stop codon is underlined.

...GCG GTT AAG TCG GAG CAC TCG ACG ACT GCA TAG-3' (SEQ ID NO: 73)

Please amend paragraph [0832] as follows:

[0832] To fuse the ORF in frame with the C-terminal tag in pLenti6/V5-D-TOPO[®], remove the stop codon by starting with nucleotides homologous to the last codon (TGC) and continue upstream. The reverse primer will be:

5'-TGC AGT CGT CGA GTG CTC CGA CTT-3' (SEQ ID NO: 74)

Please amend paragraph [0833] as follows:

- [0833] This will amplify the C-terminus without the stop codon and allow the ORF to be joined in frame with the C-terminal tag. To avoid joining the ORF in frame with a C-terminal tag, design the reverse primer to include the stop codon.

5'-CTA TGC AGT CGT CGA GTG CTC CGA CTT-3' (SEQ ID NO: 75)

Please amend paragraph [0834] as follows:

- [0834] pLenti6/V5-D-TOPO[®] accepts blunt-end PCR products. Do not add 5' phosphates to primers for PCR. This will prevent ligation into the pLenti6/V5-D-TOPO[®] vector. It is recommended that oligonucleotides be gel-purified, especially if they are long (> 30 nucleotides). Note that pLenti6/V5-D-TOPO[®] is supplied linearized with both ends adapted with topoisomerase I (see Figure 47, SEQ ID NO: 137). The sequence of pLenti6/V5-D-TOPO[™] is provided as Table 18 (SEQ ID NO: 106).

Please amend paragraph [0852] as follows:

- [0852] The sequence for pLenti6/V5-D-TOPO[®] shown in Table 18 (SEQ ID NO: 106) includes the overhang sequence (GTGG, SEQ ID NO: 164) hybridized to CACC (SEQ ID NO: 163).

Please amend paragraph [0891] as follows:

- [0891] Vector construction. (a) pUC12-tRNA^{TAG} : Three suppressor tRNA vectors were received from Dr. Uttam RajBhandary of Massachusetts Institute of Technology. Each suppressor tRNA vector, designated pUCtS Su+ amber, opal, and ochre, is identical except for the stop anticodon (Capone *et. al.* 1985, *EMBO*, 4(1):213-221). For convenience, the pUCtS Su+ amber vector is now referred to as pUC12-tRNA^{TAG}. To create a tetracycline-regulated version, referred to herein as pUC12-TO-tRNA^{TAG}, two tetracycline operators (tetO₂) were cloned into the *SnaBI* site in pUC12-tRNA^{TAG} using the following annealed oligonucleotides:

tetO₂ Forward primer

5' GACTCGAGTCTCCCTATCAGTGATAGAGATCTCGAGGTC 3' (SEQ ID NO: 76) and

tetO₂ Reverse primer

5' GACCTCGAGATCTCTATCACTGATAGGGAGACTCGAGTC 3' (SEQ ID NO: 77).

In italics is a unique *BglII* site that was introduced with the oligonucleotide. The underlined sequences are *XhoI* sites. All tRNA constructs were sequence verified.

(b) pcDNA6.2/GFP-DEST: pcDNA6.2/V5-DEST was digested with *Apal* and *PmeI* to remove the V5 tag. pcDNA3.1/lacZ-stop^{TAG}-GFP was also digested with *Apal* and *PmeI* to isolate the GFP fragment. The GFP fusion tag was ligated to the pcDNA6.2 DEST vector (Invitrogen Corporation, Carlsbad, CA catalog # 12489-027) and transformed into DB3.1 cells. Colonies were grown on LB-Amp plates. A clone was selected that resulted in correct band fragments when digested with *NdeI* and then sequence confirmed.

(c) pENTR CAT^{TAA, TAG, TGA} The GATEWAYTM CAT entry clones were PCR amplified followed by TOPO cloning (Invitrogen Corporation, Carlsbad, CA product manual #25-0434) into pENTR dT. Information for both vectors may be obtained by contacting Invitrogen Corporation, Carlsbad, CA. The primer sequences used were

Forward primer: 5' CACCATGGAGAAAAAATCACTGG 3' (SEQ ID NO: 78)

Reverse primer: 5' CTGCTACGCCCCGCCCTGC 3' (SEQ ID NO: 79).

The underlined sequence varied depending on which stop codon was required. Plasmid constructs were sequence verified.

(d) pcDNA3.2/V5-GW/CAT^{TAA, TAG, TGA} : pcDNA3.2/V5-DEST and pENTR CAT with each of the stops was recombined using LR clonase to generate the plasmids pcDNA3.2/V5-GW/CAT^{TAA, TAG, TGA}. Clones were identified as correct by restriction enzyme digests and sequence confirmed.

(e) pcDNA6.2/GFP-GW/CAT^{TAA, TAG, TGA} : pcDNA6.2/GFP-DEST and pENTR CAT with each of the stops was recombined using LR clonase to generate the plasmids pcDNA6.2/GFP-GW/CAT^{TAA, TAG, TGA}. Clones were identified as correct by restriction enzyme digests and sequence confirmed.

(f) pENTR p48^{TAG} : This GATEWAYTM Entry clone was obtained from the UltimateTM ORFeome Collection (Invitrogen Corporation, Carlsbad, CA) and is referred to by several names: HS8-E6 (internal Invitrogen designation), BC000141 (GenBank Accession number), or ORF 12 (used for convenience). This ORF is referred to as p48 and is a human c-myc variant (see Results section). Information for this clone may be obtained by contacting Invitrogen Corporation, Carlsbad, CA or GenBank.

(g) pcDNA6.2/GFP-GW/p48^{TAG} : pcDNA6.2/GFP-DEST and pENTR p48^{TAG} were recombined with LR clonase to generate pcDNA6.2/GFP-GW/p48^{TAG}. The recombination

reaction was transformed into TOP10 cells (Invitrogen Corporation, Carlsbad, CA, catalog #C4040-10) and plated on LB Ampicillin plates. Colonies were picked and clones were identified as correct by restriction enzyme digests and functional suppression.

(h) pcDNA6.2/V5-GW/p48^{TAG} : pcDNA6.2/V5-DEST and pENTR p48^{TAG} were recombined with LR clonase to generate the plasmid pcDNA6.2/V5-GW/p48^{TAG}. The recombination reaction was transformed into TOP10 cells and plated on LB Ampicillin plates. Colonies were picked and clones were identified as correct by restriction enzyme digests and functional suppression.

(i) pENTR-TO-tRNA^{TAG} : pENTR1A (Invitrogen Corporation, Carlsbad, CA) and pUC12-TO-tRNA^{TAG} (described in (a) above) were digested with *Sall* and *EcoRI*. Following digests, the appropriate bands were gel purified and ligated. Ligations were transformed into TOP10 cells and plated on LB-Kanamycin plates. Clone 1 was selected following *Sall* and *EcoRI* diagnostic digests.

(j) pENTR-tRNA^{TAG} : Primers were created to PCR amplify the tRNA gene from pUC12 TO tRNA^{TAG} with *EcoRI* and *XbaI* sequences at the 5' end, and *SpeI* and *HindIII* at the 3' end. The primer sequences were:

Forward primer:

5' CACCGAATTCTCTAGAGATGTCTGTGAAAAGAAACAT 3' (SEQ ID NO: 80) and

Reverse primer:

5' ATATAAGCTTACTAGTCCGGATTCCTCTACCCGAGA 3' (SEQ ID NO: 81).

The tRNA PCR product was gel purified, TOPO cloned into pENTR dT, and transformed into TOP10 cells. Colonies were selected on LB Kanamycin plates. Upon confirmation of proper insertion, two separate digests were conducted. The first digest with *EcoRI* and *XbaI* opened the pENTR-tRNA^{TAG}. The second digest with *EcoRI* and *SpeI* excised the tRNA gene. Correct fragments were gel purified, the two fragments were ligated, as *XbaI* and *SpeI* have complimentary ends, thus creating a dimer of tRNA. With confirmation of proper insertion, the same two previous digests were repeated with the dimer plasmid, fragments gel purified, ligations performed creating a tetramer. A final two digests, as previously described, were repeated on the tetramer, fragments gel purified, ligations performed creating an octamer tRNA in the pENTR backbone. (Buvoli *et al.*, *Mol. Cell. Biol.* 20:3116-3124 (2000), Suppression of Nonsense Mutations in Cell Culture and Mice by Multimerized Suppressor tRNA Genes).

Please amend paragraph [0892] as follows:

[0892] Adenovirus carrying the suppressor tRNA^{TAG} was created using a GATEWAY™ LxR reaction. pAd/PL-DEST vector (Table 10 (SEQ ID NO: 87), Figure 9) was recombined with either pENTR-tRNA^{TAG} or pENTR-tRNA^{8TAG} to create pAd-tRNA^{TAG} (Table 8, SEQ ID NO: 85) or pAd-tRNA^{8TAG} expression vectors, respectively. These vectors were subsequently cut with *PacI* and transfected into TReX 293 (Invitrogen Corporation, Carlsbad, CA, catalog #R710-07) cells to produce the initial stocks of recombinant adenovirus. Subsequent virus amplification and titering was performed in 293A cells as previously described in Example 4.

Please amend paragraph [0909] as follows:

[0909] The tRNA^{TAG} gene was cloned into pENTR to create pENTR-tRNA^{TAG}, and this was used in a GATEWAY™ LR reaction with pAd/PL-DEST (Table 10 (SEQ ID NO: 87), Figure 9) to create pAd-tRNA^{TAG}. Several large-scale preparations of virus were performed and functional testing was done. Adenovirus proved to be a very efficient way of delivering the tRNA, however preliminary experiments required MOIs (multiplicity of infection) of several hundred to deliver biologically relevant amounts of the tRNA. The goal was to achieve at least 50% suppression using an MOI of 50 in COS cells transfected with one of the reporter genes. It is believed that the tRNAs must compete with endogenous protein “stop factors” occupying the stop codon, which may explain the more efficient suppression in the presence of multiple copies of the nucleic acid molecule encoding the suppressor tRNA sequence. In an attempt to reduce the number of viral particles required for efficient suppression, eight copies of the tRNA gene were cloned into pENTR (called pENTR-tRNA^{8TAG}) and recombined into the adenovirus promoterless Destination vector. This new adenovirus (Adeno-tRNA^{8TAG}) was compared with the original monomer virus (Adeno-tRNA^{TAG}) for stop suppression (Figure 53). As shown by both fluorescent microscopy (upper panels) and anti-β-galactosidase western blotting (lower panel), a modest increase in suppression efficiency was observed with the 8-mer tRNA, and these suppression levels are as good as those seen with the plasmid-based tRNA (lanes 2 and 4). Indeed, in all subsequent experiments, the Ad-tRNA^{8TAG} transduction performed as well or better than a pUC-tRNA^{TAG} plasmid transfection making this recombinant adenovirus configuration particularly suitable for the methods of this invention.

Please amend paragraph [0927] as follows:

[0927] The pcDNATM6.2/V5-DEST and pcDNATM6.2/GFP-DEST vectors enable expression of recombinant polypeptide containing a choice of C-terminal tags. The pcDNATM6.2/V5-DEST vector encodes the V5 epitope for detection of recombinant polypeptide using the Anti-V5 antibodies. A plasmid map is provided as Figure 57 and the sequence of this vector is provided as Table 28 (SEQ ID NO: 112). The pcDNATM6.2/GFP-DEST vector encodes the Cycle-3 GFP for fusion to a polypeptide sequence of interest and use as a reporter gene. A plasmid map of this vector is provided as Figure 58 and the sequence of this vector is provided as Table 29 (SEQ ID NO: 113).

Please amend paragraph [0929] as follows:

[0929] The location in the plasmid sequence of pcDNATM6.2/V5-DEST (7341 nucleotides, SEQ ID NO: 112) of the features discussed above are: CMV promoter bases 232-819; T7 promoter/priming site bases 863-882; *attR1* site bases 911-1035; *ccdB* gene bases 1464-1769 (c); chloramphenicol resistance gene bases 2111-2770 (c); *attR2* site bases 3051-3175; V5 epitope bases 3201-3242; V5 reverse priming site 3210-3230; TK polyadenylation signal bases 3269-3540; *f1* origin 3576-4004; SV40 early promoter and origin 4031-4339; EM7 promoter bases 4394-4460; Blasticidin resistance gene bases 4461-4859; SV40 early polyadenylation signal bases 5017-5147; pUC origin bases 5530-6200 (c); Ampicillin (*bla*) resistance gene bases 6345-7205 (c); *bla* promoter bases 7206-7304 (c) where (c) indicates present on the complementary strand.

Please amend paragraph [0930] as follows:

[0930] The location in the plasmid sequence of pcDNATM6.2/GFP-DEST (7995 nucleotides, SEQ ID NO: 113) of the features discussed above are: CMV promoter bases 232-819; T7 promoter/priming site bases 863-882; *attR1* site bases 911-1035; *ccdB* gene bases 1464-1769 (c); Chloramphenicol resistance gene bases 2111-2770 (c); *attR2* site bases 3051-3175; Cycle-3 GFP bases 3195-3908; GFP reverse priming site 3303-3324; TK polyadenylation signal bases 3923-4194; *f1* origin 4230-4658; SV40 early promoter and origin 4685-4993; EM7 promoter bases 5048-5114; Blasticidin resistance gene bases 5115-5513; SV40 early polyadenylation signal bases 5671-5801; pUC origin bases 6184-6854 (c); Ampicillin (*bla*) resistance gene bases

6999-7859 (c); *bla* promoter bases 7860-7958 (c), where (c) indicates the feature is present on the complementary strand.

Please amend paragraph [0939] as follows:

[0939] The recombination region of pcDNATM6.2/V5-DEST and pcDNA6.2/GFP-DEST are provided as Figures 61A (SEQ ID NO: 153) and 61B (SEQ ID NO: 154) respectively. In Figure 61A (SEQ ID NO: 153), shaded regions correspond to those DNA sequences transferred from the entry clone into the pcDNATM6.2/V5-DEST vector by recombination. Non-shaded regions are derived from the pcDNATM6.2/V5-DEST vector. The sequences encoded by the gene of interest are boxed. To facilitate use with the Tag-on-DemandTM System, a gene of interest must contain a TAG stop codon and be in-frame with the C-terminal tag. Bases 918 and 3161 of the pcDNATM6.2/V5-DEST sequence are marked. Note that TAA and TGA stop codons are included downstream of the V5 epitope to allow translation termination in the Tag-on-DemandTM System. In Figure 61B (SEQ ID NO: 154), the recombination region of the expression clone resulting from pcDNATM6.2/GFP-DEST x entry clone is shown. The shaded regions correspond to those DNA sequences transferred from the entry clone into the pcDNATM6.2/GFP-DEST vector by recombination. Non-shaded regions are derived from the pcDNATM6.2/GFP-DEST vector. The sequences encoded by the gene of interest are boxed. To facilitate use with the Tag-on-DemandTM System, the gene of interest should contain a TAG stop codon. Bases 918 and 3161 of the pcDNATM6.2/GFP-DEST sequence are marked. TAA and TGA stop codons are included downstream of the GFP gene to allow translation termination in the Tag-on-DemandTM System (not shown).

Please amend paragraph [0951] as follows:

[0951] To confirm that a gene of interest is in the correct orientation and in frame with the C-terminal fusion tag, the expression construct can be sequenced. The following primers can be used to sequence an expression construct. Figures 61A (SEQ ID NO: 153) and 61B (SEQ ID NO: 154) provide the location of the primer binding sites in each vector. For sequencing the pcDNATM6.2/V5-DEST vector, an oligonucleotide that binds to the T7 promoter/priming site (*e.g.*, 5'-TAATACGACTCACTATAGGG-3' SEQ ID NO: 45) and an oligonucleotide that binds to the V5(C-term) reverse priming site (*e.g.*, 5'-ACCGAGGAGAGGGTTAGGGAT-3' SEQ ID

NO: 46) can be used. To sequence the pcDNA™6.2/GFP-DEST vector, an oligonucleotide that binds to the T7 promoter/priming site (*e.g.*, 5'-TAATACGACTCACTATAGGG-3' SEQ ID NO: 45) and an oligonucleotide that binds to the GFP reverse priming site (*e.g.*, 5'-GGGTAAGCTTTCCGTATGTAGC-3' SEQ ID NO: 82) can be used.

Please amend paragraph [1002] as follows:

[1002] In some embodiments, methods of the invention may be used to create a nucleic acid molecule encoding a fusion polypeptide. According to one aspect of the invention, a nucleic acid molecule encoding a fusion polypeptide may be constructed by combining a first nucleic acid molecule having a first nucleic acid sequence encoding a polypeptide sequence (*e.g.*, a polypeptide of interest) with a second nucleic acid molecule having a second nucleic acid sequence encoding an additional polypeptide sequence (*e.g.*, a polypeptide tag sequence). A nucleic acid molecule encoding a polypeptide of interest should contain an ATG initiation codon in the context of a Kozak consensus sequence for proper initiation of translation in mammalian cells (Kozak, 1987; Kozak, 1991; Kozak, 1990). An example of a Kozak consensus sequence is (G/A)NN**ATGG** (SEQ ID NO: 159), where the ATG initiation codon is underlined. Other sequences are possible, but the G or A at position -3 and G at position +4 are the most critical for function (shown in bold).

Please amend paragraph [1075] as follows:

[1075] In one particular embodiment, the present invention provides two nucleic acid molecules (*e.g.*, plasmids, viral vectors etc.) that may be used in the practice of the invention. A first nucleic acid molecule comprises a repressor sequence and a promoter and may comprise a sequence of interest operably linked to the repressor and promoter. A first nucleic acid molecule may also comprise one or more recognition sequences (*e.g.*, recombination sites, topoisomerase sites, restriction enzyme sites, etc.). One non-limiting example of a first nucleic acid molecule is the plasmid, pLenti4/TO/V5-DEST, which contains two copies of the tetracycline operator sequence (TO) within the CMV promoter (CMVTetO₂). A map of this vector is provided as Figure 70A and the nucleotide sequence is provided in Table 31 (SEQ ID NO: 115). This plasmid also contains two recombination sites that do not recombine with each other. A sequence of interest may be operably linked to the promoter and repressor using any technique

known in the art. In one embodiment, a sequence of interest may be operably linked to the promoter and repressor by conducting a recombination reaction between a sequence of interest flanked by recombination sites and the nucleic acid molecule of the invention. For example, pLenti4/TO/V5-DEST (Figure 70A) can be reacted with a sequence of interest flanked by *attR1* and *attR2* sites to operably link the sequence of interest to the CMV promoter and tetracycline operator in a LR-recombination reaction. The reaction places the sequence of interest downstream of CMVTetO₂ for regulated expression in the presence of the tetracycline repressor protein.

Please amend paragraph [1076] as follows:

A second nucleic acid molecule of the invention may express one or more proteins that interact with repressor sequences. One non-limiting example of a repressor protein is the tetracycline repressor protein (TetR). One example of a suitable second nucleic acid molecule is the repressor plasmid pLenti6/TR, which expresses TetR. A map of this vector is provided as Figure 69 and the nucleotide sequence is provided as Table 32 (SEQ ID NO: 116). TetR binds the tetracycline operator sites in CMVTetO₂ promoter on the expression vector and blocks transcription from the promoter in the absence of inducer. When tetracycline inducer binds TetR, however, the latter dissociates from the promoter and transcription proceeds.

Please amend paragraph [1082] as follows:

[1082] A nucleic acid molecule expressing the tetracycline repressor protein may be constructed using any technique known in the art. For example, a nucleic acid fragment containing the tetracycline repressor coding sequence can be cloned using any technique known in the art. The nucleotide sequence of a nucleic acid fragment containing the coding sequence for the tetracycline repressor is provided as Table 35 (SEQ ID NO: 119). The 1.4 kb fragment also contains the β -globin intron. The 1.4 kb TetR-containing fragment was cloned into pLenti6/V5 (Invitrogen Corporation, Carlsbad, CA). A map of pLenti6/V5 is provided as Figure 71 and the nucleotide sequence is provided as Table 33 (SEQ ID NO: 117). The resulting plasmid, pLenti6/TR, was verified by restriction digest and sequence analyses. A map of pLenti6/TR is shown in Figure 69. pLenti6/TR can be used to generate blasticidin resistant mammalian cells that stably express the tetracycline repressor, TetR.

Please amend paragraph [1083] as follows:

[1083] Nucleic acid molecules comprising a promoter sequence and a repressor sequence can be constructed using any techniques known in the art. For example, pLenti4/TO/V5-DEST was created from pLenti3/V5-TREx (Invitrogen Corporation, Carlsbad, CA), by replacing the neomycin resistance gene of the latter with the zeocin resistance gene. pLenti3/V5-TREx contains the CMV promoter and Tet operators of pT-REx-DEST30 (Invitrogen Corporation, Carlsbad, CA catalog no. 12301016). A map of pLenti3/V5-TREx is provided as Figure 72 and the nucleotide sequence is provided in Table 34 (SEQ ID NO: 118).

Please amend paragraph [1104] as follows:

[1104] The restriction enzyme sites may be located such that a 3'-overhang of a desired length is produced on the strand containing the topoisomerase cleavage site (after the 3'-T in Fig. 73). The location of the topoisomerase cleavage site may be varied with respect to 3'-most nucleotide of the strand containing the cleavage site. This may be useful in generating a 5'-overhang on the opposite strand after topoisomerase cleavage in order to generate a sequence that can invade a double-stranded insert (see Figure 47, SEQ ID NO: 137).

Please amend Table 6 on pages 344-353 as follows:

Table 6: Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

catcatcaataatataccttatttttgattgaagccaatatgataatgagggggtggagtttgtagctggcgcgggggcgtgggaacggggc
gggtgacgtagtagtgtagtgagggaagtgtgatgttgcaagtgtggcggaacacatgtaagcgacggatgtggcaaaagtacgtttttggtg
tgcgccgggtgtacacaggaagtgacaattttcgcgcggttttagcggaagtgttagtaaaatttggcgtaaccgagtaagatttggccatttt
cgcgggaaaactgaataagaggaagtgaatctgaataattttgtgtactcatagcgcgtaaatatttctagggccgcggggactttgacc
gtttacgtggagactcggcaggtgtttttctcaggtgtttccgcgtccgggtcaaagtggcggtttattattatagtcagtcgaagcttgat
ccggtacctctagaattctcagcggccgctagcgacatcggaatctcccgatccctatggtcgactctcagtacaatctgctctgatccgc
atagttaagccagtagtctgctccctgcttgtgttgagggtcgtgtagtagtgcgcgagcaaaatttaagctacaacaaggcaaggcttgac
cgacaattgcatgaagaatctgcttaggggttaggcgttttgcgctgcttcgcgatgtacggccagatatacgcgttgacattgattattgact
agttattaatagtaataaattacggggcattagttcatagcccatatatggagtccgcgttacataaacttacggtaaatggcccgctggctg
accgcccacgacccccgccattgacgtcaataatgacgtatgttccatagtaacgccaatagggactttccattgacgtcaatgggtgg
actatttacggtaaaactgccacttggcagtagcatcaagtgtatcatatgccaagtacggccctattgacgtcaatgacggtaaatggcccg
cctggcattatgccagtagcatgacctatgggactttcctacttggcagtagcatctacgtattagtcacgctattaccatggtgatgcggtttg
gcagtagcatcaatggcggtgtagcgggtttagctacggggatttccaaagtctccacccattgacgtcaatgggagtttgggttggacca
aaatcaacgggactttccaaaatgtcgtacaactccgccccattgacgcaaatggcggttaggcgtgtacgggtgggaggtctatataagc
agagctctctggctaactagagaacccactgcttactggcttatcgaaattaatacgaactcactatagggagacccaagctggctagttaagc
tatcaacaagttgtacaaaaaagctgaacgagaaacgtaaaatgatataaatatcaatatattaattagattttgcataaaaaacagactaca
taactgtaaaaacacacatatccagtcactatgaatcaactacttagatggtatttagtacctgtagtcgaccgacagccttccaaatgttctt
cgggtgatgctgccaacttagtcgaccgacagccttccaaatgttcttctcaaacggaatcgtcgtatccagcctactcgtattgtctcaat
gccgtattaaatcataaaaagaataagaaaaagaggtgcgagcctctttttgtgtgacaaaataaaaacatctactattcatatacgttagt
gtcatagtcctgaaaatcatctgcatcaagaacaatttcacaactcttatacttttcttacaagtcgttcggcttcatctggattttcagcctctat
acttactaaacgtgataaagtttctgtaatttctactgtatcgacctgcagactggctgtgtataaggagcctgacatttatattcccagaaca
tcaggttaatggcggttttgatgtcattttcgcgggtggctgagatcagccacttctccccgataacggagaccggcacactggccatcgggt
gggtcatcatgcgccagctttcatccccgatatgcaccaccgggtaaaagttcacgggagactttatctgacagcagacgtgactggccagg
gggatcaccatccgtcgccggggcgtgtaataatcactctgtacatccacaaacagacgataacggctctctctttataggtgtaaacct
taaactgcatttcaccagtcctgttctcgtcagcaaaagagccgttcatttcaataaaccggcgacctcagccatcccttctgattttccgc
tttccagcgttcggcacgcagacgacgggcttcattctgcatggttgtgttaccagaccggagatattgacatcatatatgccttgagcaact
gatagctgtcgtgtcaactgtcactgtaatacgtgcttcatagcacacctctttttgacatacttcgggtatacatatcagtatatattcttatac
cgcaaaaatcagcgcgcaaaatagcactgttatctggcttttagtaagccggatccacgcgattacggcccgccctgccactcatcgag
tactgttgaattcattaaagcattctgccgacatggaagccatcacagacggcatgatgaacctgaatcgccagcggcatcagcaccttctgc
ccttgcgtataatatttgcccatggtgaaaacgggggcgaagaagttgtccatattggccacgtttaaataaaaactggtgaaactcaccag
ggattggctgagacgaaaaacatattctcaataaaccttttagggaaataggccaggttttcaccgtaacacgccacatcttgcgaatatatgt
gtagaaactgccggaatcgtcgtgtattcactccagagcgtatgaaaacgtttcagtttgcgtatggaaaacgggtgaacaagggtgaaca
ctatcccatatcaccagctcaccgtcttccattgccataggaattccggatgagcattcatcaggcgggcaagaatgtgaataaaggccgg
ataaaaactgtgcttatttttcttacgggtcttttaaaaaggccgtaataatccagctgaacggctgtggttatagggtacattgagcaactgactgaaat
gcctcaaaatgttctttacgatgccattgggatatatcaacgggtggtatatccagtgttttttccatttttagcttcttagctcctgaaaatctc
gataactcaaaaatacggccgtagtgatcttatttctattatggtgaaagttggaacctttacgtgccgatcaacgtctcattttcgccaaaa
gttggccagggttcccggtatcaacagggacaccaggttatttattctgcgaagtgtcttccgtcacaggtatttttcggcgcaaggt
gcgtcgggtgatgtgccaaacttagtcgactacaggtcactaataaccatcaagtagttgattcatagtgactggatattgtgttttacagtat
tatgtagctgttttttatgcaaaatcaatttaatatattgatatttatatcttttacgtttctcgttcagcttctgtacaaagtgggtgatctagagg
ggccgcgggttcgaaggtgaagcctatccctaaccctctcctcgggtctcgattctacgcgtaccgggttagtaatgagtttaaacgggggagggt
aactgaaacacggaaggagacaataaccggaaggaaacccgcgctatgacggcaataaaaagacagaataaaacgcacgggtgttgggtc
gtttgttcaaaacgcgggggttcgggtccagggtggcactctgtcgataccccaccgagacccattggggccaata

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

cgccgcgtttctctttccccaccccccccccaagttcgggtgaaggcccagggtcgcagccaacgtcggggcggcaggccctg
ccatagcagatccgattcgacagatcactgaaatgtgtgggcgtggcctaagggtgggaaagaatatataaggtgggggtcttatgtatgttt
gtatctgtttgagcagccgccgcccatgagcaccactcgtttgatggaagcattgtgagctcatattgacaacgcgcagatcccccat
gggcccgggggtgcgtcagaatgtgatgggtccagcattgatggcgtccccgtcctgcccgcaaaactctactaccttgacctacgagaccgt
gtctggaacgccgttgagactgcagctccgccgccgttcagccgctgcagccaccgcccggggattgtgactgactttgctttcctg
agcccgttgcgaagcagtgacgttcccgttcacccgccgcgatgacaagttgacggctcttttggcacaattggattctttgacccgggaa
cttaatgtcgtttcagcagctgttgatctgcgccagcaggtttcgtccctgaaggcttctccctcccaatgcggtttaaataataa
aaaaccagactctgtttggatttgatcaagcaagtgtctgtctttatttaggggttttgcgcgcgcggttagccccgggaccagcggtct
cggtcgttgagggtcctgtgtattttccaggacgtggttaaagggtgactctggatgttcagatacatgggcataagcccgctctggggtgg
aggtagcaccactgcagagcttcagctgcgggggtggtgttagatgatccagtcgtagcaggagcgcgtgggcgtggtgcctaaaaatgt
ctttcagtagcaagctgattgccaggggcaggcccttggtgtaagtgtttacaagcggtaagctgggatgggtgcatacgtggggatag
agatgcactttggactgtatttttaggttggtatgttcccagccatatccctccggggattcatgtgtgcagaaccaccagcacagtgtatcc
ggtgcacttgggaaattgtcatgtagcttagaaggaatgcgtggaagaacttgagacgcccttgtagctccaagattttccatgcattc
gtccataatgatggcaatgggcccacgggcggcggcctgggcgaagatatttctgggatacctaagtcatagttgttccaggatgaga
tcgtcataggccattttacaagcgcggggcggagggtgccagactgcggtataatggttccatccggccaggggcgtagttaccctcac
agatttgcatttcccacgctttgagttcagatggggggatcatgtctacctgcggggcgatgaagaaaacggtttccggggtaggggagat
cagctgggaagaaagcaggttctgagcagctgcgacttaccgcagccggtggggccgtaaatcacacctattaccgggtgcaactggta
gttaagagagctgcagctgccgtcatccctgagcagggggggccacttcgttaagcatgtccctgactcgcagttttccctgaccaaaccg
ccagaaggcgtcgcgccagcgcgatagcagttcttgcgaaggaagcaaatgtttcaacgggttgagaccgtccgccgtaggcagcttttg
agcgtttgaccaagcagttccaggcgtcccacagctcgtcacctgctctacggcatctcgtatccagcatatctctcgtttcgcgggttg
ggcgggtttcgtgtacggcagtagtcgggtgctcgtccagacggggcagggtcatgtctttccacgggcgcagggtctcgtcagcgtagt
ctgggtcacggtgaaggggtgcgtccgggctgcgcgtggccagggtgcgcttgaggctggtcctgctggtgctgaagcgtgccggt
cttcgccctgcgcgtcggccaggtagcatttgacctggtgtcatagtcagccctccgcggcgtggcccttggcgcgcagcttgcctt
ggaggaggcgcgcacgaggggcagtgacacttttgagggcgtagagcttgggcgcgagaaataccgattccggggagtaggcac
cgcgccgcaggccccgcagacggctcgcattccagcagcaggtgagctctggccgttcgggggtcaaaaaccagggttcccccatgctt
tttgatgcgtttcttacctctgtttccatgagccggtgtccacgctcggtagcgaagaggtgtcctgttcccgtatcacagacttgagaggc
ctgtctcgcagcgggtgttccgcggctcctcgtatagaaactcggaccactctgagacaaaggctcgcgtccaggccagcacgaaggag
gctaagtgggagggtagcggtcgttgcacttaggggtccactcgtccagggtgtgaagacacatgtcgcctcttcggcatcaagg
aagggtgattggtttaggttaggccacgtgaccgggtgtcctgaaggggggctataaaagggggtggggggcgcgttcgtcctcactct
cttcgcacgcgtgtctgcgagggccagctgttggggtgagtacctcctctgaaaagcgggcatgacttctgcgctaagattgtcagttcca
aaaacgaggaggatttgatattcacctggcccgcggtgatgcctttgagggtggccgcacatcatctggtcagaaaagacaatcttttgtgt
caagcttggtaggcaaacgacctgtagaggcgttgacagcaacttggcgatggagcgcagggttgggttttgcgcgacgtggcgcgct
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Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

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Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

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Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

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Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

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atccgcggcagctcggtgaagtttctacccacaggctgcgcaccatcaccaacgcgttagcaggtcgggcgccgatatttgagtcgc
agttggggcctccgccctgcgcgcgagttgcgatacacagggttgacgactggaacactatcagcgcc

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

gggtggtgcacgctggccagcacgctcttgcggagatcagatccgcgtccaggtcctccgcgttgctcagggcgaacggagtcaactt
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Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

gcgggcacaaagccatagttgcttgcttgaagactgtggggcaacatctccttcgcccgccgctttcttctaccatcacggcgtg
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cacacagaagcaaaggcgaccggatagcaagactctgacaaagcccaagaaatccacagcggcgccagcagcaggaggagcgg
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Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

tgctcatcttattataagatttgacgaaaatggagtgctactaaacaattccttctggaccagaatattggaacttagaaatggagatcttac
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gctccctcgtgcgtctcctgttccgacctgccggttaccggatactgtccgcctttctccctcggaagc

Table 6 (continued) Nucleotide sequence of pAd/CMV/V5-DEST (SEQ ID NO: 83).

gtggcgcttttcaatgctcacgctgtaggtatctcagttcgggtgtaggtcggtcgtccaagctgggctgtgtgcacgaacccccgttcag
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ggattagcagagcgaggtatgtaggcgggtgtacagagttcttgaagtgggtggcctaactacggctacactagaaggacagtatttggtatc
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aaaaataggcgtatcacgaggcccttctgtcttcaaggatccgaattccgggagagctcgatcgcggtttaaattaattaa

Please amend Table 7 on pages 354-362 as follows:

Table 7: Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

catcatcaataatataccttattttggattgaagccaatatgataatgagggggtggagtttgacgtggcgcgggggcgtgggaacggggc
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Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

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Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

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Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

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Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

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Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

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Table 7 (continued) Nucleotide sequence of pAd-GW-TO/tRNA (SEQ ID NO: 84).

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gctctcctgttccgacctgccgttaccggatacctgtccgcttctcccttcgggaagcgtggcgctttctcaatgctcacgctgtaggtat
ctcagttcgggtgtaggtcgttcgctccaagctgggctgtgtgcacgaacccccgttcagcccagccgctgcgccttatccggtaactatcg
tcttgagtcgaacccggtaagacacgacttatcgccactggcagcagccactggtaacaggattagcagagcgaggtatgtaggcgggtgc
tacagagttcttgaagtgggtggcctaactacggctacactagaaggacagtatttggatctgcgctctgctgaagccagttaccttcgaaa
aagagttggtagctcttgatccggcaaacaaaccaccgctgtagcgggtggttttttggtaagcagcagattacgcgcagaaaaaaag
gatctcaagaagatcctttgatcttttctacggggctgacgctcagtggaacgaaaactcacgttaagggttttggatgagattatcaaaa
aggatcttcacctagatccttttaaatcaatctaaagtatatatgagtaaaacttggctgacagttaccaatgcttaatcagtgaggcacctatctc
agcgatctgtctatttctgtcatccatagttgcctgactccccgtcgtgtagataactacgatacgggagggccttaccatctggccccagtgct
gcaatgataccgcgagaccacgctcacccggctccagattatcagcaataaaccagccagccggaagggccgagcgcagaagtggtc
ctgcaactttatccgctccatccagcttattaattgttgcgggaagctagagtaagtagttcgccagttaatagtttgcgcaacgttggcca
ttgntgcaggcatcgtggtgtcacgctcgtcgttgggtatggcttcattcagctccggttcccaacgatcaaggcgagttacatgatccccat
gttgtgcaaaaaagcgggttagctccttcggtcctccgatcgttgcagaagtaagttggccgagtggtatcactcatggttatggcagcactg
cataattcttactgtcatgccatccgtaagatgcttttctgtacttggtgagtactcaaccaagtcattctgagaatagtgtatcgggcgaccg
agttgctcttgcccggtcaaacacgggataataccgcgccacatagcagaactttaaaagtgtcatcattggaaaaacgttcttcggggcg
aaaactctcaaggatcttaccgctgttgagatccagttcgtgtaaccacatcgtgcaccaactgatcttcagcatcttttacttccaccagcgt
ttctgggtgagcaaaaaacagggaaggcaaaatgcccaaaaaagggaataaggcgacacggaatgttgaaactcatacttcttcttttc
aatattattgaagcatttatcagggttattgtctcatgagcggatacatattgaatgtatttagaaaaataacaaatagggttccgcgcacatt
tccccgaaaagtgccacctgacgtctaagaaaccattattatcatgacattaacctataaaaaataggcgtatcacgaggcccttctgtcttcaa
ggatccgaattccgggagagctcgatatcgcatcggtatttaattaattaa

Please amend Table 8 on pages 363-374 as follows:

Table 8: Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

```
1 catcatcaat aatatacctt attttgatt gaagccaata tgataatgag ggggtggagt
61 ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt
121 gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgttttg
181 gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gtttaggcg gatgtttag
241 taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga
301 agtgaaatct gaataatatt gtgttactca tagcgcgtaa tattgtcta gggccgcggg
361 gactttgacc gtttactgag agactcgccc aggtgtttt ctcaggtgtt ttccgcgttc
421 cgggtcaaag ttggcgtttt attattatag tcagtcgaag ctggatccg gtaccttag
481 aattctcgag cggccgctag cgacatcgat cacaagttg tacaaaaag caggcttaa
541 aggaaccaat tcagtcgact ctaggagtc gaaaccatcc tctgtatat ggccgcatat
601 attttactg aagactagga ccctacagaa aaggggtttt aaagtaggcg tgctaaactg
661 cagcggacct gacctgtga agaattcaca aggtatctg gtggaaatgc gcattttag
721 gcttcaatat ctgtaactct actaattagg tgtggagagc tttagccag ttcttaggt
781 ttggagacca ttaggggtt ggcgtgtggc cccctcgtaa agtcttctg acttctaca
841 tcagacaagt ctgcaattt gcaatatctc ttttagccaa tatctaaatc tttaaaattt
901 tgattttgtt tttaccag gatgagagac attccagagt tttaccttg tcaaaataaa
961 caaatttaaa gatgtctgtg aaaagaaaca tatattctc atgggaatat atccaggtt
1021 ttgaaggagg tacgacctg agatctctat cactgatagg gagactcgag ttagtctgt
1081 gccgagtggg taaggcgatg gactctaaat ccattggggg cccccgcgc aggttcgaat
1141 cctgccgact acggcgtgct tttttactc tcgggtagag gaaatccgtg gcactacctg
1201 tgcaatcaca cagaataaca tggagtagta cttttattt tcctgttatt atcttctcc
1261 ataaaagtgg aaccagataa ttttagttct ttgtgtaac aagactagag atttttgaa
1321 gtgttacatt ggaaagcact tgaaaacaca agtaattct gacactgcta taaaaatgat
1381 ggaaaaacgc tcaagtgtt ttgccttca gtctcttga aatgctgtc ccctatctga
1441 aatccagctc acgtctgact tccaaaaccg tgccttgcct taacttatgg aataaatac
1501 tcaaacagat ccccgggcga gtcgaattc gcggccgcac tcgagatc tagaccagc
1561 tttctgtac aaagtgtga tcgattcgac agatcactga aatgtgtggg cgtggcttaa
1621 ggggtggaaa gaatatataa ggtgggggtc ttattagatt ttgtatctg ttgcagcag
1681 ccgccgccgc catgagcacc aactcgttg atggaagcat tgtgagctca tattgacaa
1741 cgcgcagccc cccatgggcc ggggtgcgtc agaattgat gggctccagc attgatgtc
1801 gccccgtct gcccgcaaac tctactacct tgacctacga gaccgtgtc ggaacgccg
1861 tggagactgc agcctccgc gccgcttcag ccgtgcagc caccgccgc gggatttga
1921 ctgacttgc tttctgagc ccgttcaa gcagtgcagc tttccgttca tccgccgcg
1981 atgacaagt gacggctct ttggcacaat tggattctt gaccgggaa cttaatgtc
2041 tttctcagca gctgttggat ctgcgccagc aggtttctg cctgaaggct tctccctc
2101 ccaatgcggg ttaaaacata aataaaaaac cagactctg ttgatttgg atcaagcaag
2161 tgtctgtcgt tctttattt ggggtttgc gcgcgcggtt ggccgggac cagcgtctc
2221 ggtcgtttag ggtcctgtg atttttcca ggacgtggtt aaggtgactc tggatgttca
2281 gatacatggg cataagcccc tctctggggg ggaggtagca cactgcaga gttcatgct
2341 gcgggggtgt gtttagatg atccagtcg agcaggagcg ctgggcgtgg tgcctaaaaa
2401 tgtcttcag tagcaagctg attgccagg gcaggccctt ggtgtaagt ttacaaagc
2461 ggtaagctg gtaggggtgc atacgtgggg atatgagatg catcttgac tgtatttta
2521 ggttggtctat gttccagcc atatccctc ggggattcat gttgtcaga accaccaga
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Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

2581 cagtgtatcc ggtgcacttg ggaaatttgt catgtagctt agaaggaaat gcgtggaaga
 2641 acttgagac gcccttgtga cctccaagat ttccatgca ttcgtccata atgatggcaa
 2701 tgggccacg ggcggcgcc tgggcgaaga tattctggg atcactaacg tcatagttgt
 2761 gttccaggat gagatcgta taggccattt ttacaaagcg cgggcggagg gtgccagact
 2821 gcggtataat ggttccatcc ggcccagggg cgtagttacc ctacagatt tgcattccc
 2881 acgcttgag ttcagatggg gggatcatgt ctacctgcgg ggcgatgaag aaaacggtt
 2941 ccgggtagg ggagatcagc tgggaagaaa gcaggttct gagcagctgc gacttaccg
 3001 agccggtggg ccgtaaatc acacctatta ccgggtgcaa ctggtagtta agagagctgc
 3061 agctgccgtc atccctgagc aggggggcca ctctgtaag catgtccctg actcgcagt
 3121 ttccctgac caaatccgcc agaaggcgt cgccgccag ctagagcagt tctgcaagg
 3181 aagcaaagt ttcaacggt ttgagaccgt ccgccgtagg catgctttg agcgttgac
 3241 caagcagttc caggcggtcc cacagctcgg tcacctgctc tacggcatct cgatccagca
 3301 tatctctcg ttctcggggt tggggcggt ttcgtgtac ggcagtagtc ggtgctcgtc
 3361 cagacgggcc aggtcatgt cttccacgg gcgcagggtc ctctcagcg tagtctgggt
 3421 cacggtgaag ggggtgcgtc cgggtgcgc gctggccagg gtgcgctga ggtggtcct
 3481 gctggtgtg aagcgtgcc ggtcttcgcc ctgcgcgtc gccaggtagc attgacat
 3541 ggtgtcatag tccagccct ccgcggcgtg gcccttggcg cgcagcttc cttggagga
 3601 ggcgccac gaggggcagt gcagacttt gagggcgtag agcttggcg cgagaaata
 3661 cgattccggg gagtagcat ccgcgccga gccccgcag acggtctgc attccagag
 3721 ccaggtgagc tctggcgtt cgggtcaaa aaccaggtt ccccatgct tttgatgcg
 3781 ttcttacct ctggttcca tgagccgtg tccacgtcg gtgacgaaa ggtgtcct
 3841 gtccccgtat acagactga gaggcctgtc ctgagcgtt gtccgcgtt cctctcgt
 3901 tagaaactcg gaccactct agacaaaggc tcggtccag gccagcacga aggaggtaa
 3961 gtgggagggg tagcggtctg tgcactag ggggtccact cgctccaggg tgtgaagaca
 4021 catgtcgcc tcttcggcat caaggaagg gattggttg tagtgtagg ccacgtgac
 4081 ggtgttct gaaggggggc tataaagg ggtggggcg cgttcgtct cactcttc
 4141 cgcacgtc tctgcaggg ccagctgtt gggtagtac tcccttgaa aagcggcat
 4201 gacttctgc ctaagattgt cagtttcaa aaacgaggag gatttgatat tcacctggc
 4261 cgcggtgat ccttgaggg tggccgcat catctgttca gaaaagacaa tcttttgt
 4321 gtcaagctg gtggcaaac acccgtagag ggcgttgac agcaacttg cgatggagc
 4381 cagggttg ttttgcgc gatcggcgc ctcttgcc gcgatgtta gctgcacga
 4441 ttcgcgcga acgcaccgc attcgggaaa gacggtgtg cgtcgtcgg gcaccaggtg
 4501 cacgcgcaa ccgcggtgt gcagggtgac aaggtcaac ctggtggcta cctctccgc
 4561 taggcgtc tttgtccag agaggcgcc gcccttgcgc gagcagaat gcggtaggg
 4621 gtctagctg gtctgtccg ggggtctgc gtccacggt aagaccccg gcagcaggc
 4681 cgcgtcgaag tagtctatc tgcacctg caagtctag gcctgtgcc atgcgcggc
 4741 ggcaagcgc cgtcgtatg ggttgagtgg gggacccat ggcatgggt gggtagcgc
 4801 ggagcgta atccgcaaa ttcgtaaac gtagggggc tctctagta ttcaagata
 4861 ttagggtag catctccac cgcgatgct ggcgcgcac taatctata gtctgtcga
 4921 gggagcagg aggtcgggac cgaggttct acggcgggc tgcctgtc ggaagactat
 4981 ctgcctgaag atggcatgt agttgatga tatggttga cgttgaaga cgttgaagc
 5041 ggcgtctgt agacctacc cgtcacgc gaaggaggcg taggagtcgc gcagctgtt
 5101 gaccagctc gcggtgacct gcagcttag ggcgagtag tccagggtt cttgatgat
 5161 gtcatacta tctgtccct tttttcca cagctcgcg ttgaggaaa actctcgcg
 5221 gtcttccag tactcttga tcggaaacc gtcggcctc gaacgtaag agcctagcat

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

5281 gtagaactgg ttgacggcct ggtagggcga gcatcccttt tctacgggta gcgcgtatgc
 5341 ctgcgcggcc ttccggagcg aggtgtgggt gagcgcaaag gtgtccctga ccatgacttt
 5401 gaggtactgg tatttgaagt cagtgtcgtc gcatccgccc tgctcccaga gcaaaaagtc
 5461 cgtgcgcttt ttggaacgcg gatttggcag ggcgaagggt acatcgttga agagtatctt
 5521 tcccgcgcga ggcataaagt tgcgtgtgat gcggaagggt cccggcacct cggaacgggt
 5581 gtttaattacc tggcgggcga gcacgatctc gtcaaagccg ttgatgttgt ggcccacaat
 5641 gtaaagtcc aagaagcgcg gcatgccctt gatggaaggc aatttttaa gtctctcgt
 5701 ggtgagctct tcaggggagc tgagcccgtg ctctgaaagg gccagctctg caagatgagg
 5761 gttggaagcg acgaatgagc tccacaggtc acgggccatt agcatttga ggtggtcgcg
 5821 aaaggtccta aactggcgac ctatggccat ttttctggg gtgatgcagt agaaggtaag
 5881 cgggtcttgt tcccagcggg cccatccaag gtctgcgggt aggtctcgcg cggcagtcac
 5941 tagaggctca tctccgccga acttcatgac cagcatgaag ggcacgagct gctcccaaa
 6001 ggcccccatc caagtatagg tctctacatc gtaggtgaca aagagacgt cgggtcgcagg
 6061 atcgagccg atcggaaga actggatctc ccgccaccaa ttggaggagt ggctattgat
 6121 gtgtgaaag tagaagtccc tgcgacgggc cgaacactcg tgctggcttt tgtaaaaacg
 6181 tgcgcagtac tggcagcggg gcacgggctg tacatctgc acgaggttga cctgacgacc
 6241 gcgcacaagg aagcagagtg ggaatttgag cccctgcct ggcggtttg gctggtggtc
 6301 ttctactcgt gctgcttgc cttgaccgtc tggctgctc aggggagttg cgggtggtc
 6361 gaccaccacg ccgcgcgagc ccaaagtcca gatgtccgcg cgcggcggc ggagcttgat
 6421 gacaacatcg cgcagatggg agctgtccat ggtctggagc tcccgcggcg tcaggtcagg
 6481 cgggagctcc tgcaggttta cctcgcatac acgggtcagg gcgcgggcta gatccaggtg
 6541 atacctaatt tccagggggt ggttgggtgc ggcgtcgtg gcttgaaga ggccgcatcc
 6601 ccgcggcgcg actacggtac cgcgcggcgg gcggtgggccc gcgggggtgt ctttgatga
 6661 tgcactaaa agcggtgacg cgggcgagcc cccggaggta gggggggctc cggaccgcc
 6721 gggagagggg gcaggggcac gtcggcgccg cgcgcgggca ggagctggtg ctgcgcgct
 6781 aggttctgg cgaacgcgac gacgcggcgg ttgatctctt gaatctggcg cctctgcgtg
 6841 aagacgacgg ccccgtgag cttgagcctg aaagagagtt cgacagaatc aatttcggtg
 6901 tcgttgacgg cggcctggcg caaaatctcc tgcacgtctc ctgagttgtc ttgataggcg
 6961 atctcgcca tgaactgtc gatctcttcc tcttgagat ctccgcgtcc ggctcgtcc
 7021 acggtggcgg cgaggtcgtt ggaaatgcgg gccatgagct gcgagaaggc gttgaggcct
 7081 cctcgttcc agacgcggct gtagaccacg cccctctcgg catcgcgggc gcgcatgacc
 7141 acctgcgcga gattgagctc cacgtccgg gcgaagacgg cgtagtttcg caggcgctga
 7201 aagaggtagt tgagggtggt ggcggtgtgt tctgccacga agaagtacat aaccagcgt
 7261 cgcaacgtgg attcgttgat atcccccaag gctcaaggc gctccatggc ctctagaag
 7321 tccacggcga agttgaaaaa ctgggagttg cgcgccgaca cggttaactc ctctccaga
 7381 agacggatga gctcggcgac agtgcgcgc acctcgcgt caaaggctac aggggcctct
 7441 tcttctctt caatctctc ttccataagg gcctccctt ctctcttc tggcggcgg
 7501 gggggagggg ggacacggcg gcgacgacgg cgcaccggga ggcggtcgc aaagcgtc
 7561 atcatctccc cgcggcgacg gcgcatggtc tcggtgacgg cgcggcgtt ctgcggggg
 7621 cgagttgga agacgccgcc cgtcatgtcc cgttatggg ttggcggggg gctgccatgc
 7681 ggcagggata cggcgctaac gatcatctc aacaattgt gttaggtac tccgccgcc
 7741 agggacctga gcgagtcgc atcaccgga tcggaaaacc tctcagaaa ggcgtctaac
 7801 cagtacagt cgcaaggtag gctgagcacc gtggcggcg gcagcggcg gcggtcgggg
 7861 ttgttctgg cggaggtgct gctgatgat taattaaagt aggcggtct gagacggcg
 7921 atggtcgaca gaagccat gtcctgggt ccggcctgct gaatgcgcag gcggtcggcc

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

7981 atgccccagg ctctgttttg acatcggcgc aggtctttgt agtagtcttg catgagcctt
 8041 tctaccgga cttctcttc tccttctct tgcctgcat ctctgcatc tatcgtgcg
 8101 gcggcgagg agtttgccg taggtggcgc cctcttctc ccatgcgtgt gaccccgaag
 8161 cccctcatcg gctgaagcag ggctaggctg gcgacaacgc gctcggctaa tatggcctgc
 8221 tgcacctgcg tgagggtaga ctggaagtca tccatgtcca caaagcgggtg gtatgcgccc
 8281 gtgttgatgg tgtaagtga gttggccata acggaccagt taacggctctg gtgaccggc
 8341 tgcgagagct cgggttacct gagacgcgag taagccctcg agtcaaatac gtagtcgttg
 8401 caagtccgca ccaggtactg gtatccacc aaaaagtgcg gcggcggctg gcggtagagg
 8461 ggccagcgta ggggtggcgg ggctccgggg gcgagatctt ccaacataag gcgatgatat
 8521 ccgtagatgt acctggacat ccaggtgatg ccggcggcgg tggtaggggc gcgcggaaa
 8581 tcgcgagcgc ggtccagat gttgcgcagc ggcaaaaagt gctccatggt cgggacgctc
 8641 tggccggta ggcgcgcga atcgttgacg ctctagaccg tgcaaaagga gagcctgtaa
 8701 gcgggcactc ttccgtggc tggtaggataa attcgcaagg gtatcatggc ggacgaccgg
 8761 ggttcgagcc ccgtatccg ccgtccggcg tgatccatgc ggttaccgcc cgcgtgtcga
 8821 acccaggtgt gcgacgtcag acaacggggg agtgctcctt ttggcttct tccaggcgcg
 8881 gcggctgctg cgctagcttt ttggccact ggccgcgcgc agcgtaaagc gttaggctgg
 8941 aaagcgaaag cattaagtgg ctgcctccct gtagccggag ggtattttc caagggtga
 9001 gtcgcgggac ccccggttcg agtctcggac cggccggact gcggcgaacg ggggtttgcc
 9061 tccccgtcat gcaagacccc gcttgcaaat tctccggaa acaggagca gccctttt
 9121 tgctttccc agatgcatcc ggtgctgcg cagatgcgcc cccctctca gcagcggcaa
 9181 gagcaagagc agcggcagac atgcagggca cctccccctc ctctaccgc gtcaggaggg
 9241 gcgacatccg cgttgacgc ggcagcagat ggtgattacg aacccccgcg gcgccgggccc
 9301 cggcactacc tggacttgga ggaggcgag ggctggcgc ggctaggagc gccctctct
 9361 gagcgttacc caagggtgca gctgaagcgt gatacgcgtg aggcgtacgt gccgcggcag
 9421 aacctgttc gcgaccgca gggagaggag cccgaggaga tgcgggatcg aaagtccac
 9481 gcagggcgcg agctgcggca tggcctgaat cgcgagcggg tgcgcgcga ggaggacttt
 9541 gagcccgacg cgcgaaccgg gattatccc gcgcgcgcac acgtggcggc cgcgacctg
 9601 gtaaccgcat acgagcagac ggtgaaccag gagattaact tcaaaaaag cttaacaac
 9661 cacgtgcgta cgcttggtgc gcgcgaggag gtggctatag gactgatgca tctgtgggac
 9721 tttgtaagc cgctggagca aaacccaaat agcaagccgc tcatggcgca gctgttcct
 9781 atagtgcagc acagcaggga caacgaggca ttcagggatg cgctgctaaa catagtagag
 9841 cccgagggcc gctggctgct cgatttgata aatcctctgc agagcatagt ggtgcaggag
 9901 cgcagcttga gcctggctga caaggtggcc gccatcaact attccatgct tagcctgggc
 9961 aagttttacg cccgcaagat ataccatacc ccttacgttc ccatagacaa ggaggtaaag
 10021 atcgaggggt tcatatgcg catggcgctg aaggtgctta ccttgagcga cgacctgggc
 10081 gtttatcgca acgagcgcac ccacaaggcc gtgagcgtga gccggcggcg cgagctcagc
 10141 gaccgcgagc tgatgcacag cctgcaaagg gccctggctg gcacgggcag cggcgataga
 10201 gagccgagc cctactttga cgcggcgctg gacctgcgtg gggcccaag ccgacgcgcc
 10261 ctggaggcag ctggggcccg acctgggctg gcggtggcac ccgcgcgcgc tggcaacgtc
 10321 ggccggctgg aggaatatga cgaggacgat gactacgagc cagaggacgg cgagtactaa
 10381 gcggtgatgt ttctgatcag atgatgcaag acgcaacgga cccggcggtg cgggcggcgc
 10441 tgcagagcca gccgtccggc cttaactcca cggacgactg gcgccaggtc atggaccgca
 10501 tcatgtcgt gactgcgcgc aatcctgacg cgttccggca gcagccgag gccaacggc
 10561 tctccgcaat tctggaagcg gtggctccgg cgcgcgcaaa cccacgcac gagaaggtgc
 10621 tggcgatcgt aaacgcgctg gccgaaaaca gggccatccg gcccgacgag gccggcctgg

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

10681 tctacgacgc gctgcttcag cgcgtggctc gttacaacag cggcaacgtg cagaccaacc
 10741 tggaccggct ggtgggggat gtgcgcgagg ccgtggcgca gcgtgagcgc gcgcagcagc
 10801 agggcaacct gggctccatg gttgactaa acgccttcct gactacacag cccgccaacg
 10861 tgccgcgggg acaggaggac tacaccaact ttgtgagcgc actgcggcta atggtgactg
 10921 agacaccgca aagtgaggtg taccagtctg ggccagacta tttttccag accagtagac
 10981 aaggcctgca gaccgtaaac ctgagccagg cttcaaaaa cttgcagggg ctgtgggggg
 11041 tgcgggctcc cacaggcgac cgcgcgaccg tgtctagctt gctgacgcc aactcgcgc
 11101 tgttctgct gctaatacg ccttcacgg acagtggcag cgtgtcccgg gacacatacc
 11161 taggtcactt gctgacactg taccgcgagg ccataggtca ggcgcatgtg gacgagcata
 11221 ctttcagga gattacaagt gtcagccgcg cgtgggggca ggaggacacg ggcagcctgg
 11281 aggcaaccct aaactacctg ctgaccaacc ggcggcagaa gatcccctcg ttgcacagtt
 11341 taaacagcga ggaggagcgc attttgcgt acgtgcagca gagcgtgagc cttaacctga
 11401 tgcgcgacgg ggtaacgcc agcgtggcgc tggacatgac cgcgcgcaac atggaaccgg
 11461 gcatgtatgc ctcaaacgg ccgtttatca accgccta at ggactactg catcgcgcgg
 11521 ccgccgtgaa ccccgagtat ttaccaatg ccatcttgaa cccgcactgg ctaccgccc
 11581 ctggtttcta caccggggga ttgaggtgc ccgagggtaa cgatggattc ctctgggacg
 11641 acatagacga cagcgtgttt tccccgcaac cgcagaccct gctagagttg caacagcgcg
 11701 agcaggcaga ggcggcgctg cgaaaggaaa gctccgcag gccaagcagc ttgtccgatc
 11761 taggcgctgc ggccccgagg tcagatgcta gtagccatt tccaagcttg atagggtctc
 11821 ttaccagcac tcgcaccacc cggcgcgcc tgcgtggcga ggaggagtac ctaaacaact
 11881 cgctgctgca gccgcagcgc gaaaaaacc tgcctccggc atttccaac aacgggatag
 11941 agagcctagt ggacaagatg agtagatgga agacgtacgc gcaggagcac agggacgtgc
 12001 caggcccgcg cccgccacc cgtcgtcaaa ggcacgaccg tcagcggggg ctggtgtggg
 12061 aggacgatga ctgcgcagac gacagcagcg tcttgattt gggaggaggt ggcaaccgt
 12121 ttgcgcacct tcgcccagg ctggggagaa tgtttaaaa aaaaaaagc atgatgcaa
 12181 ataaaaaact caccaaggcc atggcaccga gcgttggtt tcttgattc ccttagtat
 12241 gcggcgcgcg gcgatgtat aggaaggtcc tctccctcc tacgagagtg tggtagcgc
 12301 ggcgccagt ggcggcgcg tgggttctcc ctctgatgt cccctggacc cgccgtttgt
 12361 gcctccgagg tacctgcggc ctaccggggg gagaaacagc atccgttact ctgagttggc
 12421 accctattc gaccaccacc gtgtgtacct ggtggacaac aagtcaacgg atgtggcatc
 12481 cctgaactac cagaacgacc acagcaact tctgaccac gtcattcaa acaatgacta
 12541 cagcccgggg gaggcaagca cacagacat caatctgac gaccggtcgc actggggcgg
 12601 cgacctgaaa accatcctgc ataccaacat gccaatgtg aacgagtca tgtttacaa
 12661 taagtttaag gcgcgggtga tgggtgcgc cttgcctact aaggacaac aggtggagct
 12721 gaaatacgag tgggtggagt tcacgtgcc cgagggcaac tactccgaga ccatgacct
 12781 agaccttatg aacaacgcga tctggagca ctactgaaa gtgggcagac agaacggggt
 12841 tctgaaaagc gacatcgggg taaagttga ccccgcaac tcagactgg ggttgacc
 12901 cgtcactgg cttgtcatgc ctgggtata taaaacgaa gcctccatc cagacatcat
 12961 tttgtgcca gcatgcgggg tgacttcac ccacagccgc ctgagcaact tgttggcat
 13021 ccgaagcgg caaccctcc aggagggtt taggatcacc tacgatgac tggagggtg
 13081 taacattccc gactgttgg atgtggacgc ctaccaggcg agcttgaaag atgacaccga
 13141 acaggcggg ggtggcgag gcggcgcaa cagcagtggc agcgcgcggg aagagaactc
 13201 caacgcggca gccgcggcaa tgcagccggt ggaggacatg aacgatcatg ccattcgcgg
 13261 cgacacctt gccacacggg ctgaggagaa gcgcgctgag gccgaagcag cggccgaagc
 13321 tgccgcccc gctgcgcaac ccgaggtcga gaagcctcag aagaaccgg tgatcaaac

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

13381 cctgacagag gacagcaaga aacgcagtta caacctaata agcaatgaca gcaccttcac
 13441 ccagtaccgc agctgggtacc ttgcatacaa ctacggcgac cctcagaccg gaatccgctc
 13501 atggaccctg ctttgcactc ctgacgtaac ctgcggctcg gagcaggtct actgggtcgtt
 13561 gccagacatg atgcaagacc ccgtgacctt ccgctccacg cgccagatca gcaactttcc
 13621 ggtggtgggc gccgagctgt tgcccgtgca ctccaagagc ttctacaacg accaggccgt
 13681 ctactcccaa ctcatccgcc agtttacctc tctgaccac gtgttcaatc gctttccga
 13741 gaaccagatt ttggcgcgcc cgccagcccc caccatcacc accgtcagtg aaaacgttcc
 13801 tgctctcaca gatcacggga cgctaccgct gcgcaacagc atcggaggag tccagcgagt
 13861 gaccattact gacgccagac gccgcacctg ccctacgtt tacaaggccc tgggcatagt
 13921 ctgccgcgc gtctatcga gccgcacttt ttgagcaagc atgtccatcc ttatatgcc
 13981 cagcaataac acaggctggg gcctgcgctt cccaagcaag atgtttggcg gggccaagaa
 14041 gcgtccgac caacaccag tgcgcgtgcg cgggcactac cgcgcgccct ggggcgcgca
 14101 caaacgcggc cgcactgggc gcaccaccgt cgtgacgcc atcgacgcgg tggaggagga
 14161 ggcgcgcaac tacacgcca cgccgccacc agtgtccaca gtggacgcgg ccattcagac
 14221 cgtggtgcgc ggagcccgcc gctatgctaa aatgaagaga cggcggaggc gcgtagcacg
 14281 tcgccaccgc cgccgaccg gcactgccgc ccaacgcgcg gcggcgcccc tgcttaaccg
 14341 cgcacgtcgc accggccgac gggcgcccat gcgggcccgt cgaaggctgg ccgcgggtat
 14401 tgctactgtg cccccagggt ccaggcgacg agcggccgcc gcagcagccg cggccattag
 14461 tgctatgact cagggtcgca ggggcaacgt gtattgggtg cgcgactcgg ttagcggcct
 14521 gcgcgtgccc gtgcgcaacc gcccccgcg caactagatt gcaagaaaaa actacttaga
 14581 ctgtactgt tgtatgtatc cagcggcggc ggcgcgcaac gaagctatgt ccaagcgcaa
 14641 aatcaaagaa gagatgctcc aggtcatcgc gccggagatc tatggcccc cgaagaagga
 14701 agagcaggat tacaagcccc gaaagctaaa gcgggtcaaa aagaaaaaga aagatgatga
 14761 tgatgaactt gacgacgagg tggaaactgt gcacgtacc gcgccaggc gacgggtaca
 14821 gtggaaaggt cgacgcgtaa aacgtgtttt gcgaccggc accaccgtag tctttacgcc
 14881 cggtagcgc tccaccgca cctacaagcg cgtgtatgat gaggtgtacg gcgacgagga
 14941 cctgcttgag caggccaacg agcgctcgg ggagtttgc tacggaaagc ggcataagga
 15001 catgctggcg ttgccgttg acgagggcaa ccaaacacct agcctaaagc ccgtaacact
 15061 gcagcagggtg ctgcccgcgc ttgcaccgtc cgaagaaaag cgcggcctaa agcgcgagtc
 15121 ttgtgacttg gcaccaccg tgcagctgat ggtacccaag cgccagcgac tggaagatgt
 15181 cttgaaaaa atgaccgtgg aacctgggtt ggagcccag gtccgcgtgc ggccaatcaa
 15241 gcaggtggcg ccgggactgg gcgtgcagac cgtggacgtt cagatacca ctaccagtag
 15301 caccagtatt gccaccgcca cagagggtat ggagacacaa acgtccccgg ttgcctcagc
 15361 ggtggcggat gccgcgtgc aggcggtcgc tgcggccgcg tccaagacct ctacggaggt
 15421 gcaaacggac ccgtggatgt ttgcgtttc agcccccg cgccgcgcg gtgcaggaa
 15481 gtacggcgcc gccagcgcg tactgcccga atatgcccta catccttcca ttgcgcctac
 15541 ccccggtat cgtggctaca cctaccgcc cagaagacga gcaactacc gacgccgaac
 15601 caccactgga acccgccgcc gccgtgcgcg tcgccagccc gtgtggccc cgatttcgt
 15661 gcgcagggtg gctcgcgaag gaggcaggac cttggtgtg ccaacagcgc gctaccacc
 15721 cagcatcgtt taaaagccgg tctttgtgt tcttcagat atggccctca cctgccgcct
 15781 ccgtttcccg gtgccgggat tccgaggaag aatgcaccgt aggaggggca tggccggcca
 15841 cgccctgacg ggcggcatgc gctgtgcgca ccaccggcg cggcgcgct cgcaccgtcg
 15901 catgcgcggc ggtatcctgc cctccttat tccactgat gccgcggcga ttggcgccgt
 15961 gcccggaatt gcatccgtgg cttgcaggc gcagagacac tgattaaaaa caagtgcgt
 16021 gtggaaaaa caaaataaaa agtctggact ctacgctcg cttggtctg taactattt

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

16081 gtagaatgga agacatcaac ttgctgtctc tggccccgcg acacggctcg cgcccgttca
16141 tgggaaactg gcaagatatac ggcaccagca atatgagcgg tggcgcttc agctggggct
16201 cgctgtggag cggcattaaa aatttcggtt ccaccgttaa gaactatggc agcaaggcct
16261 ggaacagcag cacaggccag atgctgaggg ataagttgaa agagcaaaa ttccaacaaa
16321 aggtggtaga tggcctggcc tctggcatta gcgggggtgt ggacctggcc aaccaggcag
16381 tgcaaaataa gattaacagt aagcttgatc cccgccctcc cgtagaggag cctccaccgg
16441 ccgtggagac agtgtctcca gaggggcgtg gcgaaaagcg tccgcgcccc gacagggaag
16501 aaactctggt gacgcaaata gacgagcctc cctcgtacga ggaggcacta aagcaaggcc
16561 tgcccaccac cgtgccatc gcgcccatgg ctaccggagt gctgggccag cacacaccgg
16621 taacgtgga cctgcctccc ccgcccagaca ccagcagaa acctgtgtg ccaggccccga
16681 ccgctgtgt tgtaaccct cctagccgcg cgtccctgcg ccgcccgcg agcggtccgc
16741 gatcgttgcg gcccgtagcc agtggcaact ggcaaagcac actgaacagc atcgtgggtc
16801 tgggggtgca atccctgaag cgccgacgat gcttctgaat agctaactg tcgtatgtgt
16861 gtcattgat cgtccatgc gccgccagag gagctgctga gccgccgcg gcccgcttc
16921 caagatggct accccttga tgatgccga gtggtcttac atgcacatc cgggccagga
16981 cgctcggag tacctgagcc ccgggctggt gcagtttcc cgcccaccg agacgtactt
17041 cagcctgaat aacaagtta gaaacccac ggtggcgct acgcacgacg tgaccacaga
17101 ccggtccag cgttgacgc tgcggttcat cctgtggac cgtgaggata ctgcgtactc
17161 gtacaaggcg cgttcaccc tagctgtggg tgataaccgt gtgctggaca tggcttccac
17221 gtacttgac atccgcggcg tctggacag gggccctact ttaagccct actctggcac
17281 tgctacaac gccctggctc ccaagggtgc cccaaatcct tgcgaatggg atgaagctgc
17341 tactgtctt gaaataaacc tagaagaaga ggacgatgac aacgaagacg aagtagacga
17401 gcaagctgag cagcaaaaaa ctacgtatt tgggcaggcg cctattctg gtataaatat
17461 taaaaaggag ggtattcaaa taggtgtcga aggtcaaaca cctaatatg ccgataaaac
17521 attcaacct gaacctcaa taggagaatc tcagtgttac gaaactgaa ttaatcatgc
17581 agctgggaga gtccttaaaa agactacccc aatgaaacca tgttacggtt catatgcaa
17641 accacaaat gaaaatggag ggcaaggcat tctgtaaag caacaaatg gaaagctaga
17701 aagtcaagt gaaatgcaat tttctcaac tactgaggcg accgcaggca atggtgataa
17761 ctgactcct aaagtgtat gtacagtga agatgtgat atagaaacc cagacactca
17821 tattcttac atgccacta ttaaggaagg taactcacga gaactaatg gccacaatc
17881 tatgccaac aggcctaatt acattgctt tagggacaat ttattggtc taatgtatta
17941 caacagcac ggtaatatg gtgttctggc gggccaagca tcgcagtga atgctgtgt
18001 agatttcaa gacagaaaca cagagcttc ataccagctt ttgcttgatt ccattggtga
18061 tagaaccagg tacttttcta tgtggaatca ggctgttgac agctatgac cagatgttag
18121 aattattgaa aatcatgga ctgaagatga acttcaaat tactgcttc cactgggagg
18181 tgtgattaat acagagactc ttaccaaggt aaaacctaaa acaggtcagg aaaatggatg
18241 ggaaaaagat gctacagaat ttccagataa aatgaaata agagttggaa ataatttgc
18301 catggaaatc aatctaatg ccaacctgtg gagaaattc ctgtactcca acatagcgct
18361 gtatttccc gacaagctaa agtacagtc ttccaacgta aaaatttctg ataaccctaa
18421 cacctacgac tacatgaaca agcagtggt ggctcccggg ttagtgact gctacattaa
18481 ccttgagca cgtgtgtccc tgactatat ggacaacgtc aaccattta accaccaccg
18541 caatgtggc ctgcgtacc gctcaatgt gctgggcaat ggtcgctatg tgcccttcca
18601 catccagggt cctcagaagt tcttgccat taaaacctc ctctcctgc cgggctcata
18661 cacctacgag tggaactca ggaaggatgt taacatggt ctgcagagct ccctaggaaa

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

18721 tgacctaaagg gttgacggag ccagcattaa gttgatagc atttgccctt acgccacctt
 18781 cttcccatg gccacaaca ccgcctccac gcttgaggcc atgcttagaa acgacaccaa
 18841 cgaccagtcc ttaacgact atctctccgc cgccaacatg ctctacccta taccgcgcaa
 18901 cgtaccaaac gtgcccataat ccacccctc ccgcaactgg gcggctttcc gcggctgggc
 18961 cttcacgcgc ctaagacta aggaaccccc atcactgggc tggggtacg acccttatta
 19021 cacctactct ggtctctatc cctacctaga tggaaacctt tacctcaacc acaccttaa
 19081 gaagtgggcc attaccttg actctctgt cagctggcct ggcaatgacc gcctgcttac
 19141 ccccaacgag ttgaaatta agcgtcagt tgacggggag ggttacaacg ttgccagtg
 19201 taacatgacc aaagactggg tctgtgtaca aatgctagct aactacaaca ttggctacca
 19261 gggcttctat atcccagaga gctacaagga ccgcatgtac tcttcttta gaaactcca
 19321 gcccattgagc cgtcaggtgg tggatgatac taaatacaag gactaccaac aggtgggcat
 19381 cctacaccaa cacaacaact ctggatttgt tggctacctt gcccaccca tgcgcgaagg
 19441 acaggcctac cctgctaact tcccctatcc gcttataggc aagaccgcag ttgacagcat
 19501 taccagaaa aagtttctt gcgatgcac ctttggcgc atccattct ccagtaactt
 19561 tatgtccatg ggcgcactca cagacctggg ccaaacctt ctctacgcca actccgcca
 19621 cgcgctagac atgactttt aggtggatcc catggacgag cccaccctt tttatgttt
 19681 gtttgaagtc ttgacgtgg tccgtgtgca ccggccgcac cgcggcgta tcgaaaccgt
 19741 gtacctgcgc acgcccttct cggccggcaa cgccacaaca taaagaagca agcaacatca
 19801 acaacagctg ccgcatggg ctccagttag caggaactga aagccattgt caaagatctt
 19861 ggttggtggc catattttt gggcacctat gacaagcgt ttccaggctt tgtttctca
 19921 cacaagctcg cctgcgcat agtcaatac gccggtcgc agactggggg cgtacactgg
 19981 atggccttg cctggaaccc gactcaaaa acatgctacc tcttgagcc ctttgcttt
 20041 tctgaccage gactcaagca ggtttaccag ttgagtacg agtactct gcgccgtagc
 20101 gccattgctt cttccccga ccgctgtata acgctgaaa agtccacca aagcgtacag
 20161 gggcccaact cggccgctg tggactattc tctgcatgt ttccacgc ctttgccaac
 20221 tggccccaaa ctccatgga tcacaacccc accatgaacc ttattaccgg ggtaccaac
 20281 tccatgetca acagtcccca ggtacagccc acctgcgc gcaaccagga acagtctac
 20341 agcttcttg agcgccact gcctacttc cgcagccaca gtgcgcagat taggagcgc
 20401 acttctttt gtcacttgaa aaacatgtaa aaataatgta ctagagacac ttcaataaa
 20461 ggcaaatgct tttattgta cactctggg tgattattt cccccacct tgcgtctgc
 20521 gccgtttaa aatcaaagg gttctgccg gcacgctat gcgccactgg caggacacg
 20581 ttgcgatact ggtgttagt gctccacta aactcaggca caaccatcc cggcagctc
 20641 gtgaagttt cactccacag gctgcgcacc ataccaacg cgttagcag gtcgggcgc
 20701 gatatttga agtcgcagt ggggcctcc cctgcgcgc gcgagttgc atacacagg
 20761 ttgcagcact ggaacactat cagcgccggg tgggtcacgc tggccagcac gctctgtc
 20821 gagatcagat ccgcgtccag gtctccgcg ttgctcagg cgaacggagt caacttgg
 20881 agctgcctt ccaaaaagg cgcgtgcca ggcttgagt tgcactcga ccgtagtgc
 20941 atcaaaagg gaccgtgcc ggtctggcg ttaggataca gcgcctgat aaaagcctg
 21001 atctgctaa aagccacct agccttgcg cttcagaga agaacatgc gcaagactg
 21061 ccggaaaact gattggcgg acaggccgc tctgcacgc agcacctgc tgcgtgtg
 21121 gagatctgca ccacattcg gcccaccgg ttctcacga tcttgccct gctagactg
 21181 tcttcagcg cgcgtgccc gtttcgctc gtcacatcca ttcaatcac gtgctctta
 21241 ttatcataa tgctccgtg tagacacta agctgcctt cgatcagc gcagcggg
 21301 agccacaac cgcagcccgt gggctcgtg tctgttagg tcacctctg aaacgactg
 21361 aggtacgct gcaggaatc ccccatcgc gtcacaaag tctgtgtg ggtgaaggc

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

21421 agctgcaacc cgcggtgctc ctcgttcagc caggtcttgc atacggccgc cagagcttcc
 21481 acttggtcag gcagtagttt gaagttcgcc ttagatcgt tatccacgtg gtacttgtcc
 21541 atcagcgcgc gcgcagcctc catgcccttc tcccacgcag acacgatcgg cacactcagc
 21601 gggttcatca ccgtaatttc actttccgct tcgctgggct ctctctcttc ctcttgctc
 21661 cgcataccac gcgccactgg gtcgtcttca ttcagccgcc gcaactgtgcg ctacctctc
 21721 ttgccatgct tgattagcac cgggtgggtg ctgaaaccca ccattttagt cgccacatct
 21781 tctctttctt cctcgtgtc cagcattacc tctggtgatg gcgggcgctc gggcttgga
 21841 gaagggcgct tcttttctt ctggggcgca atggccaaat ccgccgccga ggtcgatggc
 21901 cgcgggctgg gtgtgcgcgg caccagcgcg tcttgtgatg agtcttctc gtctcggac
 21961 tcgatacgcc gcctcatccg ctttttggg ggcgcccggg gaggcggcgg cgacggggac
 22021 ggggacgaca cgtctccat ggttggggga cgtcgcgccg caccgcgtcc gcgctcgggg
 22081 gtggttctgc gctgctctc ttcccactg gccattctc tctctatag gcagaaaaag
 22141 atcatggagt cagtcgagaa gaaggacagc ctaaccgccc cctctgagtt cgccaccacc
 22201 gcctccaccg atgccgcaa cgcgcctacc acctccccg tcgaggcacc ccgcttgag
 22261 gaggaggaag tgattatcga gcaggaccca ggtttgtaa gcgaagacga cgaggaccgc
 22321 tcagtaccaa cagaggataa aaagcaagac caggacaacg cagaggcaaa cgaggacaa
 22381 gtcgggctgg gggacgaaag gcatggcgac tacctagatg tgggagacga cgtgctgtg
 22441 aagcatctgc agcgccagtgc gcgcattatc tgcgacgcgt tgcaagagcg cagcgatgtg
 22501 cccctcgcca tagcggatgt cagccttgc tacgaacgcc acctattctc accgcgcgta
 22561 ccccccaaac gccaaagaaa cggcacatgc gagcccaacc cgcgcctcaa ctctacccc
 22621 gtatttgcg tgccagaggt gcttgccacc tatcacatct tttccaaaa ctgcaagata
 22681 cccctatct gccgtgcaa cgcagccga gcggacaagc agctggcctt gcggcagggc
 22741 gctgtcatac ctgatatcgc ctgctcaac gaagtgcga aaatcttga gggcttggg
 22801 cgcgacgaga agcgcgcggc aaacgctctg caacaggaaa acagcgaaaa tgaaagtcac
 22861 tctggagtgt tgggtgaact cgagggtgac aacgcgcgcc tagcgtact aaaacgcagc
 22921 atcgaggtea cccactttgc ctaccggca cttaacctac ccccaaggt catgagcaca
 22981 gtcagtgtg agctgatcgt gcgccgtgcg cagcccctgg agagggatgc aaatttgcaa
 23041 gaacaaacag aggagggcct acccgaggtt ggcgacgagc agctagcgcg ctggcttcaa
 23101 acgcgcgagc ctgccgactt ggaggagcga cgcaactaa tgatggccgc agtgctggt
 23161 accgtggagc ttgagtgcac gcagcgggtc ttgctgacc cggagatgca gcgcaagcta
 23221 gaggaacat tgcactacac ctctgacag ggctacgtac gccaggcctg caagatctcc
 23281 aacgtggagc tctgcaacct ggtctctac ctggaattt tgcacgaaaa ccgccttggg
 23341 caaacgtgc ttcattccac gctcaagggc gaggcgcgcc gcgactacgt ccgcgactgc
 23401 gtttacttat ttctatgcta cactggcag acggccatgg gcgtttggca gcagtgttg
 23461 gaggagtga acctcaagga gctgcagaaa ctgctaaagc aaaacttgaa ggacctatgg
 23521 acggccttca acgagcgtc cgtggccgcg cactggcgg acatcattt cccgaacgc
 23581 ctgcttaaaa cctgcaaca ggtctgcca gacttaccga gtcaaagcat gttgcagaac
 23641 ttaggaact ttatcctaga gcgtcagga atcttcccgc ccactgctg tgcattctc
 23701 agcgactttg tgcccattaa gtaccgcgaa tgccctccgc cgtttgggg cactgctac
 23761 ctctgcagc tagccaacta cttgcctac cactctgaca taatggaaga cgtgagcgtt
 23821 gacggtctac tggagtgtca ctgctgctgc aacctatgca cccgcaccg ctccctggtt
 23881 tgcaattcgc agctgcttaa cgaaagtcaa attatcgta ctttgagct gcagggtccc
 23941 tcgctgacg aaaagtccgc ggctccgggg ttgaaactca ctccggggct gtggacgtcg
 24001 gcttaccttc gcaatttgt acctgaggac taccagccc acgagattag gttctacgaa
 24061 gaccaatccc gcccgccaaa tgcggagctt accgcctgcg tcattacca gggccacatt

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

24121 cttggccaat tgcaagccat caacaaagcc cgccaagagt ttctgctacg aaagggacgg
24181 ggggtttact tggaccccca gtccggcgag gagctcaacc caatcccccc gccgccgcag
24241 ccctatcagc agcagccgcg ggcccttgct tcccaggatg gcacccaaaa agaagctgca
24301 gctgccgccg ccaccacagg acgaggagga atactgggac agtcaggcag aggaggtttt
24361 ggacgaggag gaggaggaca tgatggaaga ctgggagagc ctagacgagg aagcttccga
24421 ggtcgaagag gtgtcagacg aaacaccgtc accctcgtc gcattcccct cgccggcgcc
24481 ccagaaatcg gcaaccggtt ccagcatggc tacaacctcc gtcctcagg cgccgccggc
24541 actgccggtt cgccgacca accgtagatg ggacaccact ggaaccaggg ccggtaatc
24601 caagcagccg ccgccgttag cccaagagca acaacagcgc caaggctacc gctcatggcg
24661 cgggcacaag aacgccatag ttgcttgctt gcaagactgt gggggcaaca tctccttcgc
24721 ccgccgtttt cttctctacc atcacggcgt ggccttcccc cgtaacatcc tgcattacta
24781 ccgtcatctc tacagcccat actgcaccgg cggcagcggc agcggcagca acagcagcgg
24841 ccacacagaa gcaaaggcga ccggtatgca agactctgac aaagcccaag aaatccacag
24901 cggcggcagc agcaggagga ggagcgtgc gtctggcgcc caacgaacct gctcagacc
24961 gcgagcttag aaacaggatt ttcccactc tgtatgctat atttaacag agcaggggccc
25021 aagaacaaga gctgaaaata aaaaacaggt ctctgcgac cctcacccgc agctgcctgt
25081 atcacaaaag cgaagatcag cttcggcgca cgctggaaga cgcggagggt ctcttcagta
25141 aatactgcgc gctgactctt aaggactagt ttcgcgcctt ttctcaaatt taagcgcgaa
25201 aactacgtca tctccagcgg ccacaccgg cgccagcacc tgcgtcagc gccattatga
25261 gcaaggaaat tcccacgccc tacatgtgga gttaccagcc acaaatggga cttgcggctg
25321 gagctgccc agactactca acccgaataa actacatgag cgcgggaccc cacatgatat
25381 cccgggtcaa cggaatccgc gccaccgaa accgaattct cttggaacag gcggctatta
25441 ccaccacacc tcgtaataac cftaatcccc gtagttggcc cgctgccctg gtgtaccagg
25501 aaagtcccgc tcccaccact gtgttacttc ccagagacgc ccaggccgaa gttcagatga
25561 ctaactcagg ggcgcagctt gcggggcggt ttcgtcacag ggtgcggctc cccgggcagg
25621 gtataactca cctgacaatc agagggcgag gtattcagct caacgacgag tcggtgagct
25681 cctcgttgg tctccgtccg gacgggacat ttcagatcgg cggcgccggc cgtccttcat
25741 tcacgcctcg tcaggcaatc ctaactctgc agacctcgtc ctctgagccg cgctctggag
25801 gcattggaac tctgcaattt attgaggagt ttgtgccatc ggtctacttt aacccttct
25861 cgggacctcc cggccactat ccggtatcaat ttattcctaa ctttgacgcg gtaaaggact
25921 cggcggacgg ctacgactga atgttaagt gagaggcaga gcaactgcgc ctgaaacacc
25981 tggccactg tcgccccac aagtgccttg cccgcgactc cggtagattt tgctactttg
26041 aattgcccga ggatcatatc gagggcccgg cgcacggcgt ccggcttacc gccagggag
26101 agcttgccc tagcctgatt cgggagtta cccagcgcgc cctgctagtt gagcgggaca
26161 ggggacctg tgttctact gtgatttga actgtcctaa ctttgatta catcaagatc
26221 ttgttgcca tctctgtgt gagtataata aatacagaaa ttaaaatata ctggggctcc
26281 tatgccatc ctgtaaacgc caccgtcttc acccgcccaa gcaaaccaag gcgaacctta
26341 cctgtactt ttaacatctc tccctctgtg atttacaaca gtttcaacct agacggagt
26401 agtctacgag agaacctctc cgagctcagc tactccatca gaaaaaacac caccctcctt
26461 acctgccggg aacgtacgag tgcgtaccg gccgctgcac cacacctacc gcctgaccgt
26521 aaaccagact tttccggac agacctcaat aactctgtt accagaacag gaggtgagct
26581 tagaaaacct ttaggttatt aggccaaagg cgcagctact gtgggggtta tgaacaattc
26641 aagcaactct acgggctatt ctaattcagg ttctctaga aatggacgga attattacag
26701 agcagcgct gctagaaaga cgcagggcag cggccgagca acagcgcatg aatcaagagc
26761 tccaagacat ggtaacttg caccagtga aaaggggtat ctttgtctg gtaaagcagg

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

26821 ccaaagtcac ctacgacagt aataccaccg gacaccgcct tagctacaag ttgccaacca
 26881 agcgtcagaa attggtggc atggtgggag aaaagcccat taccataact cagcactcgg
 26941 tagaaaccga aggctgcatt cactcacctt gtcaaggacc tgaggatctc tgcaccctta
 27001 ttaagaccct gtgcggtctc aaagatctta ttccctttaa ctaataaaaa aaaataataa
 27061 agcatcactt acttaaaatc agttagcaaa ttctgtcca gtttattcag cagcacctcc
 27121 ttgccctcct ccagctctg gtattgcagc ttctcctgg ctgcaaactt tctccacaat
 27181 ctaaatggaa tgtcagttc ctctgttcc tgtccatccg caccactat ctcatgttg
 27241 ttgcagatga agcgcgcaag accgtctgaa gatacctca acccgtgta tccatagac
 27301 acggaaaccg gtccccaac tgtgcctttt ctactctc ctttgtatc ccccaatggg
 27361 ttcaagaga gtccccctgg ggtactctct ttgcgcctat ccgaacctct agttacctcc
 27421 aatggcatgc ttgcgctcaa aatgggcaac ggcctctctc tggacgaggc cggcaacctt
 27481 acctccaaa atgtaaccac tgtgagccca cctctcaaaa aaaccaagtc aaacataaac
 27541 ctggaaatat ctgcaccct caggttacc tcagaagccc taactgtggc tgccgccgca
 27601 cctctaattg tcgggggcaa cacactcacc atgcaatcac agggcccgct aaccgtgcac
 27661 gactccaaac ttagcattgc cacccaagga cccctcacag tgcagaagg aaagtagcc
 27721 ctgcaaacat caggccccct caccaccacc gatagcagta cccttactat cactgcctca
 27781 cccctctaa ctactgccac tggtagcttg ggcattgact tgaaagagcc catttataca
 27841 caaaatggaa aactaggact aaagtacggg gctccttgc atgtaacaga cgacctaaac
 27901 actttgaccg tagcaactgg tccaggtgtg actattaata atacttcctt gcaactaaa
 27961 gttactggag cttgggttt tgaaccaca ggcaatatgc aactaatgt agcaggagga
 28021 ctaaggattg atttcaaaa cagacgcctt atacttgatg ttagttatcc gttgatgt
 28081 caaaaccaac taaatctaag actaggacag ggcctctt ttataaactc agcccacaac
 28141 ttggatatta actacaacaa aggcctttac ttgtttacag ctcaaacaa ttccaaaaag
 28201 cttgagggtta acctaagcac tgccaagggg ttgatgttg acgtacagc catagccatt
 28261 aatgcaggag atgggcttga atttggttca ctaatgcac caaacacaaa tcccctcaa
 28321 acaaaaattg gccatggcct agaatttgat tcaacaagg ctatggttcc taaactagga
 28381 actggcctta gtttgacag cacaggtgcc attacagtag gaaacaaaaa taatgataag
 28441 ctaactttgt ggaccacacc agtccatct cctaactgta gactaaatgc agagaaagat
 28501 gctaaactca ctttggtctt aacaaaatgt ggcagtcaaa tacttgctac agtttcagt
 28561 ttggtgtta aaggcagttt ggctccaata tctggaacag ttcaaagtgc tcacttatt
 28621 ataagatttg acgaaaatgg agtgctacta aacaattcct tctggaccc agaatttgg
 28681 aactttagaa atggagatct tactgaaggc acagcctata caaacgctgt tggatttatg
 28741 cctaacctat cagcttatcc aaatctcac ggtaaaactg ccaaaagtaa cattgtcagt
 28801 caagtttact taaacggaga caaaactaaa cctgtaacac taaccattac actaaacggt
 28861 acacaggaaa caggagacac aactccaagt gcatactcta tgtcatttct atgggactgg
 28921 tctggccaca actacattaa tgaatatatt gccacatcct cttaacttt ttcatacat
 28981 gcccaagaat aaagaatcgt ttgtgtatg ttcaacgtg ttatttttc aattgcagaa
 29041 aatttgaat cattttcat tcagtagtat agcccacca ccacatagct tatacagatc
 29101 accgtacctt aatcaaactc acagaacctt agtattcaac ctgccacct cctcccaaca
 29161 cacagagtac acagtcttt ctccccggct ggcttaaaa agcatcatat catgggtaac
 29221 agacatatc ttaggtgtta tattccacac gtttctctgt cgagccaaac gctcatcagt
 29281 gatattaata aactccccgg gcagctcact taagtcatg tcgctgtcca gctgctgagc
 29341 cacaggctgc tgtccaactt gcggttgctt aacgggcggc gaaggagaag tccacgccta
 29401 catgggggta ggtcataat cgtgcatcag gataggcggt tgggtgtgca gcagcgcgcg
 29461 aataaactgc tgccgccgcc gctccgtcct gcaggaatac aacatggcag tggctcctc

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

29521 agcgatgatt cgcaccgccc gcagcataag ggccttgtc ctccgggcac agcagcgac
 29581 cctgatctca cttaaatcag cacagtaact gcagcacagc accacaatat tgtcaaaat
 29641 cccacagtgc aaggcgctgt atccaaagct catggcgggg accacagaac ccacgtggcc
 29701 atcataccac aagcgcaggt agattaagtg gcgacccctc ataaacacgc tggacataaa
 29761 cattacctct ttggcatgt tgtaattcac cacctcccgg taccatataa acctctgatt
 29821 aaacatggcg ccatccacca ccatcctaaa ccagctggcc aaaacctgcc cgccggctat
 29881 aactgcagg gaaccgggac tggaacaatg acagtggaga gccaggact cgtaaccatg
 29941 gatcatcatg ctgctcatga tatcaatgtt ggcacaacac aggcacacgt gcatacactt
 30001 cctcaggatt acaagctcct cccgcgttag aaccatatcc cagggaacaa cccattcctg
 30061 aatcagcgta aatccacac tgcagggaag acctcgcacg taactcacgt tgtgcattgt
 30121 caaagtgtta cattcgggca gcagcggatg atcctccagt atggtagcgc gggtttctgt
 30181 ctcaaaagga ggtagacgat ccttactgta cggagtgcgc cgagacaacc gagatcgtgt
 30241 tggctgtagt gtcattgcaa atggaacgcc ggacgtagtc atatttcctg aagcaaaacc
 30301 aggtgcgggc gtgacaaaca gatctgcgtc tccggtctcg ccgcttagat cgctctgtgt
 30361 agtagttgta gtatatccac tctctcaaag catccaggcg ccccttggtc tgggttcta
 30421 tgtaaacctc ttcattgcgc gctgccctga taacatccac caccgcagaa taagccacac
 30481 ccagccaacc tacacattcg ttctgcgagt cacacacggg aggagcggga agagctggaa
 30541 gaacatggt tttttttt ttccaaaaga ttatccaaaa cctcaaatg aagatctatt
 30601 aagtgaacgc gctcccctcc ggtggcgtgg tcaaactcta cagccaaaga acagataatg
 30661 gcattttaa gatgttcac aatggcttc aaaaggcaaa cggccctcac gtccaagtgg
 30721 acgtaaaggc taaaccctc aggtgtaate tctctataa acattccagc acctcaacc
 30781 atgcccgaat aattctcacc tgcacactt ctcaatatat cttaagcaa atccgaata
 30841 ttaagtccg ccattgtaaa aatctgctcc agagcgccct ccaccttcag cctcaagcag
 30901 cgaatcatga ttgcaaaaat tcaggctcct cacagacctg tataagattc aaaagcggaa
 30961 cattaacaaa aataccgca tccgtaggt ccttcgcag ggccagctga acataatcgt
 31021 gcaggtctgc acggaccagc gcggccactt cccgccagg aaccttgaca aaagaacca
 31081 cactgattat gacacgcata ctggagcta tgtaaccag cgtagccccg atgtaagctt
 31141 tgttgcattg gcggcgatat aaaatgcaag gtgctgctca aaaaatcagg caaagcctcg
 31201 cgcaaaaaag aaagcacatc gtagtcatgc tcatgcagat aaaggcaggt aagctccgga
 31261 accaccacag aaaaagacac cattttctc tcaaacatgt ctgcgggttt ctgcataaac
 31321 acaaaataaa ataacaaaaa aacatttaa cattagaagc ctgtcttaca acaggaaaaa
 31381 caacccttat aagcataaga cggactacgg ccatgccggc gtgaccgtaa aaaaactggt
 31441 caccgtgatt aaaaagcacc accgacagct cctcggctat gtccggagtc ataagtaag
 31501 actcggtaaa cacatcaggt tgattcatat cggtcagtgc taaaaagcga ccgaaatagc
 31561 ccgggggaat acataccgc aggcgtagag acaacattac agccccata ggaggtataa
 31621 caaaattaat aggagagaaa aacacataaa cacctgaaaa accctcctgc ctaggcaaaa
 31681 tagcaccctc ccgctccaga acaacataca gcgctccac agcggcagcc ataacagtca
 31741 gccttaccag taaaaaagaa aacctattaa aaaaacacca ctgacacgg caccagctca
 31801 atcagtcaca gtgtaaaaaa gggccaagtg cagagcgagt atatatagga ctaaaaaatg
 31861 acgtaacggt taaagtcac aaaaacacc cagaaaaccg cagcgaacc tacgccaga
 31921 aacgaaagcc aaaaaccca caactctc aaatcgctac ttccgtttc ccacgttacg
 31981 tcaactccca ttttaagaaa actacaattc ccaacacata caagttactc cgccctaaa
 32041 cctacgtcac ccgcccgtt cccacgccc gcgccacgtc acaactcca cccctcatt
 32101 atcatattgg cttaaccca aaataaggta tattattgat gatgtaatt aatttaaatc
 32161 cgcatcgat atcgagctct cccgggaatt cgcatctgc acgcgaggt ggatggcctt

Table 8 (continued) Nucleotide sequence of pAdenoTAG tRNA (SEQ ID NO: 85).

32221 cccattatg attcttctcg cttccggcgg catcgggatg cccgcgttgc aggccatgct
32281 gtccaggcag gtagatgacg accatcaggg acagcttcac ggccagcaaa aggccaggaa
32341 ccgtaaaaag gccgcgttgc tggcgtttt ccataggctc cgccccctg acgagcatca
32401 caaaaatcga cgctcaagtc agaggtggcg aaaccgcaca ggactataaa gataccaggc
32461 gttccccct ggaagctccc tcgtgcgctc tctgttccg accctgccgc ttaccggata
32521 cctgtccgcc ttctccctt cgggaagcgt ggcgctttct caatgctcac gctgtaggta
32581 tctcagttcg gtgtagtcg ttgcctcaa gctgggctgt gtgcacgaac cccccgtca
32641 gcccgaccgc tgcgccttat ccgtaacta tcgtcttgag tccaaccgg taagacacga
32701 cttatcgcca ctggcagcag cacttggtaa caggattagc agagcgaggt atgtaggcgg
32761 tgctacagag ttctgaagt ggtggcctaa ctacggctac actagaagga cagtatttgg
32821 tatctgcgt ctgctgaagc cagttacctt cggaaaaaga gttgtagct ctgtatccgg
32881 caaacaacc accgctggta gcggtggtt tttgtttgc aagcagcaga ttacgcgcag
32941 aaaaaaagga tctcaagaag atcctttgat ctttctacg ggtctgacg ctactggaa
33001 cgaaaactca cgtaaggga tttggtcat gagattatca aaaaggatct tcacctagat
33061 ccttttaaat caatctaaag tatatatgag taaacttgg ctgacagta ccaatgctta
33121 atcagtgagg cacctatctc agcgatctgt ctatttcgt catccatagt tgcctgactc
33181 cccgtcgtgt agataactac gatacgggag ggcttaccat ctggccccag tgctgcaatg
33241 ataccgcgag acccacgctc accggctcca gatttatcag caataaacca gccagccgga
33301 agggccgagc gcagaagtgg tctgcaact ttatccgct ccatccagtc tattaattgt
33361 tgccgggaag ctgagtaag tagtcgcca gtaaatagt tgcgcaacgt tgttgccatt
33421 gntgcaggca tcgtggtgac acgctcgtc tttggtatgg ctctatcag ctccggttcc
33481 caacgatcaa ggcgagttac atgatcccc atgttgtgca aaaaagcgg tagctccttc
33541 ggtcctccga tcgtgtcag aagtaagttg gccgcagtgt tactactcat ggttatggca
33601 gcactgcata attctcttac tgcattgcca tccgtaagat gctttctgt gactggtgag
33661 tactcaacca agtcattctg agaatagtgt atgcggcgac cgagttgctc ttgccggcg
33721 tcaacacggg ataataccgc gccacatagc agaactttaa aagtgtcat cattggaaaa
33781 cgttcttcgg ggcgaaaact ctcaaggatc ttaccgctgt tgagatccag ttcatgtaa
33841 cccactcgtg cacccaactg atcttcagca tctttactt tcaccagcgt ttctgggtga
33901 gcaaaaacag gaaggcaaaa tggcgcaaaa aagggaataa gggcgacacg gaaatgttga
33961 atactcatc tcttctttt tcaatattat tgaagcatt atcagggtta ttgtctcatg
34021 agcgataca tattgaatg tatttagaaa aataaaciaa taggggttcc gcgcacattt
34081 ccccgaaaag tgccacctga cgtctaagaa accattatta tcatgacatt aacctataa
34141 aataggcgta tcacgaggcc ctttctctt caaggatccg aattccggg agagctcgat
34201 atcgcatcgc gatttaatt aattaa

Please amend Table 9 on page 375 as follows:

Table 9: Nucleotide sequence of a Sau3A fragment used to construct vectors comprising suppressor tRNA sequences (SEQ ID NO: 86).

```
1  ctagaggatc gaaaccatcc tctgctatat ggccgcatat attttacttg aagactagga
61  ccctacagaa aaggggtttt aaagtaggcg tgctaaacgt cagcggacct gacccgtgta
121 agaatccaca aggtatcctg gtggaaatgc gcatttgtag gcttcaatat ctgtaatcct
181 actaattagg tgtggagagc tttcagccag tttcgtaggt ttggagacca tttagggggt
241 ggcgtgtggc cccctcgtaa agtctttcgt acttcctaca tcagacaagt cttgcaatth
301 gcaatatctc ttttagccaa tatctaaatc tttaaaatth tgattttgtt ttttaaccag
361 gatgagagac attccagagt tgttaccttg tcaaaataaa caaatthaaa gatgtctgtg
421 aaaagaaaca tatattcctc atgggaatat atccagggtg ttgaaggagg tacactcgag
481 tctccctatc agtgatagag atctcgaggt cgtagtcgtg gccgagtggg taaggcgatg
541 gactctaaat ccattggggg ctccccgcgc aggttcgaat cctgccgact acggcgtgct
601 ttttttactc tcgggtagag gaaatccggg gcactacctg tgcaatcaca cagaataaca
661 tggagtagta ctttttattt tcctgttatt atctttctcc ataaaagtgg aaccagataa
721 ttttagttct tttgtgtaac aagactagag attttttgaa gtgttacatt ggaaagcact
781 tgaaaacaca agtaatttct gacactgcta taaaaatgat ggaaaaacgc tcaagttggt
841 ttgcctttca gtcttcttga aatgctgtct ccctatctga aatccagctc acgtctgact
901 tccaaaaccg tgcttgccct taacttatgg aataaatatc tcaaacagat cccc
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Please amend Table 10 on pages 376-384 as follows:

Table 10: Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

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CATCATCAATAATATACCTTATTTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGTTTGTGACGTG
GCGCGGGGCGTGGGAACGGGGCGGGTGACGTAGTAGTGTGGCGGAAGTGTGATGTTGCAAGTGTGGCGGA
ACACATGTAAGCGACGGATGTGGCAAAAGTGACGTTTTTGGTGTGCGCCGGTGTACACAGGAAGTGACAA
TTTTCGCGCGGTTTTAGGCGGATGTTGTAGTAAATTTGGGCGTAACCGAGTAAGATTTGGCCATTTTCGC
GGGAAACTGAATAAGAGGAAGTGAAATCTGAATAATTTGTGTTACTCATAGCGCGTAATATTTGTCTA
GGGCCGCGGGGACTTTGACCGTTTACGTGGAGACTCGCCCGAGTGTTTTTCTCAGGTGTTTTCCGCGTTC
CGGGTCAAAGTTGGCGTTTTATTATTATAGTCAGTCGAAGCTTGGATCCGGTACCTCTAGAATTCTCGAG
CGGCCGCTAGCGACATCGATCACAGTTTGTACAAAAAGCTGAACGAGAAACGTAAAATGATATAAATA
TCAATATATTAAATTAGATTTTGCATAAAAAACAGACTACATAACTGTAAAACACAACATATCCAGTC
ACTATGGCGGCCGCATTAGGCACCCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATAATGTGTGGATTT
TGAGTTAGGATCCGGCGAGATTTTCAGGAGCTAAGGAAGCTAAAATGGAGAAAAAAATCACTGGATATAC
CACCGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAGGCATTTTCAGTCAGTTGCTCAATGTACC
TATAACCAGACCGTTTCAGCTGGATATTACGGCCTTTTTAAAGACCGTAAAGAAAAATAAGCACAGTTTT
ATCCGGCCTTTATTACATTTCTTGCCCGCCTGATGAATGCTCATCCGGAATTCGTATGGCAATGAAAGA
CGGTGAGCTGGTGATATGGGATAGTGTTACCCTTGTTACACCGTTTTCCATGAGCAAACGTAAACGTTT
TCATCGCTCTGGAGTGAATACCACGACGATTTCCGGCAGTTTCTACACATATATTGCAAGATGTGGCGT
GTTACGGTGAAAACCTGGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTTCGCTCTCAGCCAATCC
CTGGGTGAGTTTACCAGTTTGTGATTAAACGTGGCCAATATGGACAACCTCTTCGCCCCCGTTTTCCACC
ATGGGCAAATATTATACGCAAGGCGACAAGGTGCTGATGCCGCTGGCGATTTCAGGTTCATCATGCCGTCT
GTGATGGCTTCCATGTGCGCAGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGC
GTAAACGCGTGGATCCGGCTTACTAAAAGCCAGATAACAGTATGCGTATTTGCGCGCTGATTTTTCGGT
ATAAGAATATATACTGATATGTATACCCGAAGTATGTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTAC
AGTGACAGTTGACAGCGACAGCTATCAGTTGCTCAAGGCATATATGATGTCAATATCTCCGGTCTGGTAA
GCACAACCATGCAGAATGAAGCCCGTCGCTGCGTGCCGAACGCTGGAAAGCGGAAAATCAGGAAGGGAT
GGCTGAGGTCGCCCCGTTTATTGAAATGAACGCTCTTTTGCTGACGAGAACAGGGACTGGTGAAATGCA
GTTTAAGGTTTACACCTATAAAAGAGAGAGCGTTTATCGTCTGTTTGTGGATGTACAGAGTGATATTATT
GACACGCCCCGGGCGACGGATGGTGATCCCCCTGGCCAGTGCACGTCTGCTGTGAGATAAAGTCTCCCGTG
AACTTTACCCGGTGGTGATATCGGGGATGAAAGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCC
GGTCTCCGTTATCGGGGAAGAAGTGGCTGATCTCAGCCACCGCGAAAATGACATCAAAAACGCCATTAAAC
CTGATGTTCTGGGGAATATAAATGTCAGGCTCCGTTATACACAGCCAGTCTGCAGGTCGACCATAGTGAC
TGGATATGTTGTGTTTTACAGTATTATGTAGTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATAT
TTATATCATTTTACGTTTCTCGTTTCAGCTTTCTTGTACAAAGTGGTGATCGATTTCGACAGATCACTGAAA
TGTGTGGGCGTGGCTTAAGGGTGGGAAAGAATATATAAGGTGGGGGTCTTATGTAGTTTTGTATCTGTTT
TGCAGCAGCCCGCCCGCCATGAGCACCAACTCGTTTGTATGGAAGCATTGTGAGCTCATATTTGACAACG
CGCATGCCCCCATGGGCGGGGTGCGTCAGAAATGTGATGGGCTCCAGCATTGATGGTCGCCCCGCTCTGCG
CCGCAAACTCTACTACCTTGACCTACGAGACCGTGTCTGGAACGCCGTTGGAGACTGCAGCCTCCGCGC
CGCTTCAGCCGCTGCAGCCACCGCCCCGCGGATTGTGACTGACTTTGCTTTCCTGAGCCCGCTTGCAAGC
AGTGACGCTTCCCGTTCATCCGCCCCGATGACAAGTTGACGGCTCTTTTGGCACAATTGGATTCTTTGA
CCCGGGAACCTTAATGTCGTTTCTCAGCAGCTGTTGGATCTGCGCCAGCAGGTTTCTGCCCTGAAGGCTTC
CTCCCCCTCCCAATGCGGTTTAAAAACATAAAATAAAAAACCAGACTCTGTTTGGATTTGGATCAAGCAAGTG
TCTTGCTGTCTTTATTTAGGGGTTTTGCGCGCGCGGTAGGCCGGGACCAGCGGTCTCGGTGCTTGAGGG
TCCTGTGTATTTTTCCAGGACGTGGTAAAGGTGACTCTGGATGTTTTCAGATACATGGGCATAAGCCCGTC
TCTGGGTGGAGGTAGACCACTGCAGAGCTTCATGCTGCGGGTGGTGTGTAGATGATCCAGTCGTAG
CAGGAGCGCTGGGCGTGGTGCCCTAAAAATGTCCTAGTGAAGCTGATTGCCAGGGGAGGCCCTTGG
TGTAAGTGTTTACAAAGCGGTTAAGCTGGGATGGGTGCATACGTGGGGATATGAGATGCATCTTGAGACTG
TATTTTTAGGTTGGCTATGTTCCAGCCATATCCCTCCGGGGATTTCATGTTGTGCAGAACCACCAGCACA
GTGTATCCGGTGCACCTTGGGAAATTTGTCTATGTAGCTTAGAAGGAAATGCGTGGAAGAACTTGAGACGC
CCTTGTGACCTCCAAGATTTTCCATGCATTCGTCCATAATGATGGCAATGGGCCCACGGGCGGCGGCTG
GGCGAAGATATTTCTGGGATCACTAACGTATAGTTGTGTTCCAGGATGAGATCGTCATAGGCCATTTTT
ACAAAGCGCGGGCGGAGGGTGCCGAGACTGCGGTATAATGGTTCCATCCGGCCCAGGGGCGTAGTTACCTT
CACAGATTTGCATTTCCACGCTTTGAGTTTCAGATGGGGGGATCATGTCTACCTGCGGGGCGATGAAGAA
AACGTTTTCCGGGTAGGGGAGATCAGCTGGGAAGAAAGCAGGTTCTTGAGCAGCTGCGACTTACCGCAG
CCGGTGGGCCCCGTAAATCACACCTATTACCGGGTGCAACTGGTAGTTAAGAGAGCTGCAGCTGCCGTCAT
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Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

CCCTGAGCAGGGGGGCCACTTCGTTAAGCATGTCCTGACTCGCATGTTTTCCCTGACCAAATCCGCCAG
AAGGCGCTCGCCGCCAGCGATAGCAGTTCTTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGACCGTCC
GCCGTAGGCATGCTTTTGAGCGTTTGACCAAGCAGTTCCAGGCGGTCCCACAGCTCGGTACCTGCTCTA
CGGCATCTCGATCCAGCATATCTCCTCGTTTCGCGGGTTGGGGCGGCCTTCGCTGTACGGCAGTAGTCGG
TGCTCGTCCAGACGGGGCCAGGGTCATGTCTTCCACGGGCGCAGGGTCCTCGTCAGCGTAGTCTGGGTCA
CGGTGAAGGGGTGCGCTCCGGGCTGCGCGCTGGCCAGGGTGCCTTGAGGCTGGTCTGCTGGTGCTGAA
GCGTGTCCGGTCTTCGCCCTGCGCGCTCGGCCAGGTAGCATTGACCATGGTGTATAGTCCAGCCCCCTCC
GCGGCGTGGCCCTTGCGCGCGCAGCTTGCCCTTGAGAGGAGGCGCGCACGAGGGGCAGTGCAGACTTTTGA
GGGCGTAGAGCTTGCGCGCGAGAAATACCGATTCCGGGGAGTAGGCATCCGCGCCGAGGCCCCGAGAC
GGTCTCGCATTCCACGAGCCAGGTGAGCTCTGGCCGTTTCGGGGTCAAAAACCAGGTTTCCCCCATGCTTT
TTGATGCGTTTCTTACCTCTGGTTTCCATGAGCCGGTGTCCACGCTCGGTGACGAAAAGGCTGTCCGTGT
CCCCGTATACAGACTTGAGAGGCCTGTCTCGAGCGGTGTTCCGCGGTCTCTCTGTATAGAACTCGGA
CCACTCTGAGACAAAGGCTCGCGTCCAGGCCAGCACGAAGGAGGCTAAGTGGGAGGGGTAGCGGTCTGTG
TCCACTAGGGGGTCCACTCGCTCCAGGGTGTGAAGACACATGTCGCCCTCTTCGGCATCAAGGAAGGTGA
TTGGTTTGTAGGTGTAGGCCACGTGACCGGGTGTTCCTGAAGGGGGGTATAAAAGGGGGTGGGGGCGCG
TTCGTCTCTCACTCTCTTCCGCATCGTGTCTGCGAGGGCCAGCTGTTGGGGTGAGTACTCCCTCTGAAA
GCGGGCATGACTTCTGCGCTAAGATTGTCACTTTCCAAAAACGAGGAGGATTTGATATTACCTGGCCCCG
CGGTGATGCCTTTGAGGGTGGCCGCATCCATCTGGTCAAGAAAAGACAATCTTTTTGTTGTCAAGCTTGGT
GGCAAACGACCCGTAGAGGGCGTTGGACAGCAACTTGGCGATGGAGCGCAGGGTTTGGTTTTTGTGCGGA
TCGGCGCGCTCCTTGCGCGCGATGTTAGCTGCACGTATTCGCGCGCAACGCACCGCCATTTCGGGAAAGA
CGGTGGTGCCTCGTCGGGCACCGGTGCACGCGCAACCGCGGTTGTGCAGGGTGACAAGGTCAACGCT
GGTGGCTACCTCTCCGCGTAGGCGCTCGTTGGTCCAGCAGAGGCGGCGCCCTTGCGCGAGCAGAATGGC
GGTAGGGGGTCTAGCTGCGTCTCGTCCGGGGGGTCTGCGTCCACGGTAAAGACCCCGGGCAGCAGGCGCG
CGTCGAAGTAGTCTATCTTGCACTCTTGCAAGTCTAGCGCTGCTGCCATGCGCGGGCGCAAGCGCGCG
CTCGTATGGTTGAGTGGGGGACCCCATGGCATGGGGTGGGTGAGCGCGGAGGCGTACATCCCGCAAATG
TCGTAAACGTAGAGGGGCTCTCTGAGTATTCCAAGATATGTAGGGTAGCATCTTCCACCGCGGATGCTGG
CGCGCACGTAATCGTATAGTTCTGTGCGAGGGAGCGAGGAGGTGCGGACCGAGGTTGCTACGGGCGGGCTG
CTCTGCTCGGAAGACTATCTGCCTGAAGATGGCATGTGAGTTGGATGATATGGTTGGACGCTGGAAGACG
TTGAAGCTGGCGTCTGTGAGACCTACCGCGTCACGCACGAAGGAGGCGTAGGAGTCGCGCAGCTTGTGTA
CCAGCTCGGCGGTGACCTGCACGTCTAGGGCGCAGTAGTCCAGGGTTTCTTGATGATGTACACTTATC
CTGTCCCTTTTTTTTCCACAGCTCGCGGTGAGGACAACTCTTCGCGGTCTTTCAGTACTCTTGGATC
GGAAACCCGTGCGCCTCCGAACGGTAAGAGCCTAGCATGTAGAAGTGGTTGACGGCCTGGTAGGCGCAGC
ATCCCTTTTCTACGGGTAGCGCGTATGCCTGCGCGGCCTTCGGAGCGAGGTGTGGGTGAGCGCAAGGT
GTCCCTGACCATGACTTTGAGGTACTGGTATTTGAAGTCAGTGTCTGTCGCATCCGCCCTGCTCCAGAGC
AAAAAGTCCGTGCGCTTTTGGAAACGCGGATTTTGAAGGCGAAGGTGACATCGTTGAAGAGTATCTTTT
CCGCGCAGAGGCATAAAGTTGCGTGTGATGCGGAAGGGTCCCGGCACCTCGGAACGGTTGTTAATTACCTG
GGCGGCGAGCACGATCTCGTCAAAGCCGTTGATGTTGTGGCCACAATGTAAAGTTCCAAGAAGCGCGGG
ATGCCCTTGATGGAAGGCAATTTTTTAAGTTCCTCGTAGGTGAGCTCTTCAGGGGAGCTGAGCCCGTGCT
CTGAAAGGGCCCAGTCTGCAAGATGAGGGTTGGAAGCGACGAATGAGCTCCACAGGTCACGGGCCATTAG
CATTTGCAGGTGGTTCGCGAAAGGTCTTAAACTGGCGACCTATGGCCATTTTTTCTGGGGTGATGCAGTAG
AAGGTAAGCGGGTCTTGTTCACAGCGGTCCCATCCAAGGTTTCGCGGCTAGGTCTCGCGCGGCAGTCACTA
GAGGCTCATCTCCGCCGAACCTTCATGACCAGCATGAAGGGCACGAGCTGCTTCCAAAGGCCCCCATCCA
AGTATAGGTCTCTACATCGTAGGTGACAAAGAGACGCTCGGTGCGAGGATGCGAGCCGATCGGGAAGAAC
TGGATCTCCCGCCACCAATTGGAGGAGTGGCTATTGATGTGGTGAAAGTAGAAGTCCCTGCGACGGGCGG
AACACTCGTGCTGGCTTTTGTAAAAACGTGCGCAGTACTGGCAGCGGTGCACGGGCTGTACATCTGCAC
GAGGTTGACCTGACGACCGCGCACAAAGGAAGCAGAGTGGGAATTTGAGCCCTCGCTGGCGGGTTTGGC
TGGTGGTCTTCTACTTCGGCTGCTTGTCTTGACCGTCTGGCTGCTCGAGGGGAGTTACGGTGGATCGGA
CCACCACGCGCGCGAGCCCCAAAGTCCAGATGTCCGCGCGCGGCGGTTCGAGCTTGATGACAACATCGCG
CAGATGGGAGCTGTCCATGGTCTGGAGCTCCCGCGCGGTTCAGGTTCAGGCGGGAGCTCCTGCAGGTTTACC
TCGCATAGACGGGTGAGGGCGCGGGCTAGATCCAGGTGATACCTAATTTCCAGGGGCTGGTTGGTGGCGG
CGTCGATGGCTTGAAGAGGCCGATCCCCGCGCGCGACTACGGTACCGCGCGGCGGGCGGTGGGCCG
GGGGGTGCTCTTGATGATGCATCTAAAAGCGGTGACGCGGGCGAGCCCCGAGGTTAGGGGGGGCTCCG
GACCCGCGGGGAGAGGGGGCAGGGGCACGTGCGCGCGCGCGCGGGCAGGAGCTGGTGTGCGCGCTAG
GTTGCTGGCGAACGCGACGACGCGGGGTTGATCTCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGC
CCGGTGAGCTTGAGCCTGAAAGAGAGTTCGACAGAATCAATTCGGTGTCTGTTGACGGCGGCCTGGCGCA

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

AAATCTCCTGCACGTCTCCTGAGTTGTCTTGATAGGCGATCTCGGCCATGAACTGCTCGATCTCTTCCTC
CTGGAGATCTCCGCGTCCGGCTCGCTCCACGGTGGCGGCGAGGTCTGTTGAAATGCGGGCCATGAGCTGC
GAGAAGGCGTTGAGGCCTCCCTCGTTCAGACGCGGTGTAGACCACGCCCCCTTCGGCATCGCGGGCGC
GCATGACCACCTGCGCGAGATTGAGCTCCACGTGCCGGGCGAAGACGGCGTAGTTTCGCAGGCGCTGAAA
GAGGTAGTTGAGGGTGGTGGCGGTGTGTTCTGCCACGAAGAAGTACATAACCCAGCGTCGCAACGTGGAT
TCGTTGATATCCCCAAGGCCTCAAGGCGCTCCATGGCCTCGTAGAAGTCCACGGCGAAGTTGAAAACT
GGGAGTTGCGCGCCGACACGGTTAACTCCTCCTCCAGAAGACGGATGAGCTCGGCGACAGTGTGCGGCAC
CTCGACCTCAAAGGCTACAGGGCCTCTTCTTCTTCAATCTCCTCTTCCATAAGGGCCTCCCTTCT
TCTTCTTCTGGCGGCGGTGGGGGAGGGGGACACGGCGGCGACGACGGCGCACCGGGAGGCGGTTCGACAA
AGCGCTCGATCATCTCCCCGCGGCGACGGCGCATGGTCTCGGTGACGGCGCGGCCGTTCTCGCGGGGGCG
CAGTTGGAAGACGCCGCCGTCATGTCCCGGTTATGGGTGGCGGGGGGCTGCCATGCGGCAGGGATACG
GCGCTAACGATGCATCTCAACAATTGTTGTGTAGGTACTCCGCCGCCGAGGGACCTGAGCGAGTCCGCAT
CGACCGGATCGGAAAACCTCTCGAGAAAGGCGTCTAACAGTACAGTCGCAAGGTAGGCTGAGCACCGT
GGCGGGCGGCGAGCGGGCGGCGGTTCGGGGTGTCTTCTGGCGGAGGTGCTGCTGATGATGTAATTAAAGTAG
GCGGTCTTGAGACGGCGGATGGTCGACAGAAGCACCATGTCTTGGGTCCGGCCTGCTGAATGCGCAGGC
GGTTCGGCCATGCCCCAGGCTTCGTTTTGACATCGGCGCAGGTCTTTGTAGTAGTCTTGCATGAGCCTTTC
TACCGGCACTTCTTCTCTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
TTTGCCCGTAGGTGGCGCCCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
CTAGGTTCGGCGACAACGCGCTCGGCTAATATGGCCTGCTGCACCTGCGTGAGGGTAGACTGGAAGTCATC
CATGTCCACAAAGCGGTGGTATGCGCCCGTGTGATGGTGTAAAGTGCAGTTGGCCATAACGGACCAGTTA
ACGGTCTGGTGACCCGGCTGCGAGAGCTCGGTGTACCTGAGACGCGAGTAAGCCCTCGAGTCAAATACGT
AGTCGTTGCAAGTCCGCACCAGGTACTGGTATCCACCAAAAAGTGCGGCGGCGGCTGGCGGTAGAGGGG
CCAGCGTAGGGTGGCCGGGGCTCCGGGGGCGAGATCTTCCAACATAAGGCGATGATATCCGTAGATGTAC
CTGGACATCCAGGTGATGCCGGCGGCGGTGGTGGAGGCGCGGAAAGTCCGCGACGCGGTTCCAGATGT
TGCGCAGCGGCAAAAAGTGCTCCATGGTTCGGGACGCTCTGGCCGTCAGGCGCGCGCAATCGTTGACGCT
CTAGACCGTGCAAAAGGAGAGCCTGTAAGCGGGCACTCTTCCGTGGTCTGGTGGATAAAATTCGAAGGT
ATCATGGCGGACGACCGGGGTTTCGAGCCCCGTATCCGGCCGTCCGCCGTGATCCATGCGGTTACCGCCCC
CGTGTGCAACCCAGGTGTGCGACGTCAGACAACGGGGAGTGCTCCTTTTGGCTTCTTCCAGGCGCGGC
GGCTGCTGCGCTAGCTTTTTTGGCCACTGGCCGCGCGCAGCGTAAGCGGTTAGGCTGGAAGCGAAAGCA
TTAAGTGGCTCGCTCCCTGTAGCCGAGGGTTATTTTCCAAGGGTTGAGTCGCGGGACCCCCGGTTTCGAG
TCTCGGACCGGCGGACTGCGGCGAACGGGGTTTGCCTCCCCGTATGCAAGACCCCGCTTGCAAAATTC
CTCCGGAACAGGGACGAGCCCCCTTTTTTGCTTTTCCAGATGCATCCGGTGTGCGGCAGATGCGCCCC
CCTCCTCAGCAGCGCAAGAGCAAGAGCAGCGGCAGACATGCAGGGCACCCCTCCCCCTCCTACCGCGT
CAGGAGGGGCGACATCCGCGGTTGACGCGGCAGCAGATGTTGATTACGAACCCCGCGCGCGCGGCGGCG
GCACTACCTGGACTTGGAGGAGGGCGAGGGCTTGGCGCGGTAGGAGCGCCCTCTCCTGAGCGGTACCCA
AGGGTGCAGCTGAAGCGTGATACGCGTGAGGCGTACGTGCCGCGGCGAGAACCCTGTTTTCGCGACCGCGAGG
GAGAGGAGCCCGAGGAGATGCGGGATCGAAAGTTCCACGCAGGGCGCGAGCTGCGGCATGGCCTGAATCG
CGAGCGGTTGCTGCGCGAGGAGGACTTTGAGCCCGACGCGCGAACCGGGATTAGTCCCGCGCGCGCACAC
GTGGCGGCGCGGACCTGGTAACCGCATACGAGCAGACGGTGAACCAGGAGATTAACTTTCAAAAAGCT
TTAACAACACGTGCGTACGCTTGTGGCGCGGAGGAGGTGGCTATAGGACTGATGCATCTGTGGGACTT
TGTAAGCGCGCTGGAGCAAAACCCAAATAGCAAGCCGCTCATGGCGCAGCTGTTCTTATAGTGCAGCAC
AGCAGGGACAACGAGGCATTCAGGGATGCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTGGCTGCTCG
ATTTGATAAACATCCTGCAGAGCATAGTGGTGCAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTGGCCG
CATCAACTATTCCATGCTTAGCCTGGGCAAGTTTTACGCCCGCAAGATATACCATAACCCCTTACGTTCCC
ATAGACAAGGAGGTAAAGATCGAGGGGTTCTACATGCGCATGGCGCTGAAGGTGCTTACCTTGAGCGACG
ACCTGGGCGTTTTATCGCAACGAGCGCATCCACAAGGCCGTGAGCGTGAGCCGGCGGCGCGAGCTCAGCGA
CCGCGAGCTGATGCACAGCCTGCAAAGGGCCCTGGCTGGCACGGGCGAGCGGCGATAGAGAGGCGGAGTCC
TACTTTGACGCGGGCGCTGACCTGCGCTGGGCCCAAGCCGACGCGCCCTGGAGGCAGCTGGGGCCGGAC
CTGGGCTGGCGGTGGCACCCGCGCGCGCTGGCAACGTCCGGCGGCGTGGAGGAATATGACGAGGACGATGA
GTACGAGCCAGAGGACGGCGAGTACTAAGCGGTGATGTTTCTGATCAGATGATGCAAGACGCAACGGACC
CGGCGGTGCGGCGCGCTGCAGAGCCAGCCCTCCGGCCTTAACCTCCACGGACGACTGGCGCCAGGTCAT
GGACCGCATCATGTGCTGACTGCGCGCAATCCTGACGCGTTCCGGCAGCAGCCGAGGCCAACCGGCTC
TCCGCAATTCTGGAAGCGGTGGTCCCGGCGCGCGCAACCCACGCACGAGAAGGTGCTGGCGGATCGTAA
ACGCGCTGGCCGAAAAACAGGGCCATCCGGCCGACGAGGCGGCGCTGGTCTACGACGCGCTGCTTCAGCG
CGTGGCTCGTTACAACAGCGCAACGTGCAGACCAACCTGGACCGGCTGGTGGGGATGTGCGCGAGGCC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

GTGGCGCAGCGTGAGCGCGCAGCAGCAGGGCAACCTGGGCTCCATGGTTGCACTAAACGCCTTCTCTGA
GTACACAGCCCGCCAAACGTGCCGCGGGGACAGGAGGACTACACCACTTTGTGAGCGCACTGCGGCTAAT
GGTGACTGAGACACCGCAAAGTGAGGTGTACCACTCTGGGCCAGACTATTTTTTCCAGACCAGTAGACAA
GGCCTGCAGACCGTAAACCTGAGCCAGGCTTTCAAAAACCTTGCAAGGGCTGTGGGGGGTGCAGGGCTCCCA
CAGGCGACCGCGCGACCGTGTCTAGCTTGCTGACGCCCAACTCGCGCCTGTTGCTGCTGCTAATAGCGCC
CTTCACGGACAGTGCGCAGCGTGTCCCGGGACACATACCTAGGTCACCTTGCTGACACTGTACCGCGAGGCC
ATAGGTCAAGGCGCATGTGGACGAGCATACTTTCCAGGAGATTACAAGTGTGAGCCGCGCGCTGGGGCAGG
AGGACACGGGCGAGCTGGAGGCAACCTAAACTACCTGCTGACCAACCGGCGGCAGAGATCCCCCTCGTT
GCACAGTTTAAACAGCGAGGAGGAGCGCATTTTGCCTACGTGCAGCAGAGCGTGAGCCTTAACCTGATG
CGCGACGGGGTAACGCCAGCGTGCGCTGGACATGACCGCGCGCAACATGGAACCGGGCATGTATGCCT
CAAACCGGCCGTTTATCAACCGCTAATGGACTACTTGTCATCGCGCGGCCGCGCTGAACCCGAGTATTT
CACCAATGCCATCTTGAACCCGCACTGGCTACCGCCCCCTGGTTTCTACACCGGGGATTTCGAGGTGCC
GAGGGTAACGATGGATTCCCTCTGGGACGACATAGACGACAGCGTGTTCCTCCCGCAACCGCAGACCTGC
TAGAGTTGCAACAGCGCGAGCAGGCGAGGCGGCGCTGCGAAAGGAAAGCTTCCGAGGCCAAGCAGCTT
GTCCGATCTAGGCGCTGCGGCCCCGCGGTGAGTGTCTAGTACCTTCCAGCTTGATAGGGTCTCTT
ACCAGCACTCGCACACCCGCGCGCTGCTGGGCGAGGAGTACCTAAACAACCTGCTGCTGCGAGC
CGCAGCGCGAAAAAACCTGCTCCGCGCATTTCCCAACAACGGGATAGAGAGCCTAGTGGACAAGATGAG
TAGATGGAAGACGTACGCGCAGGAGCACAGGGACGTGCCAGGCCGCGCGCCGCCACCCGTCGTCAAAGG
CACGACCGTCAGCGGGTCTGGTGTGGGAGGACGATGACTCGGCAGACGACAGCAGCGTCTCGGATTTGG
GAGGGAGTGGCAACCCGTTTGCACCTTCGCCCCAGGCTGGGGAGAATGTTTTAAAAAAGCAT
GATGCAAAATAAAAACTCACCAAGGCCATGGCACCGAGCGTGGTTTTCTTGATTTCCCTTAGTATGC
GGCGCGCGCGATGTATGAGGAAGTCTCTCTCTCTCTACGAGAGTGTGGTGAGCGCGCGCCAGTGGC
GGCGGCGCTGGGTTCTCCCTTCGATGCTCCCTTGGACCCGCGCTTTGTGCTCCGCGGTACCTGCGGCC
ACCGGGGGGAGAAACAGCATCCGTTACTCTGAGTTGGCACCCCTATTTCGACACACCCGTGTGTACCTGG
TGGACAACAAGTCAACGGATGTGGCATCCCTGAATACAGAACGACACAGCAACTTTCTGACCAACCGT
CATTCAAAACAATGACTACAGCCCCGGGGAGGCAAGCACACAGACCATCAATCTTGACGACCGGTGCGAC
TGGGGCGGCGACCTGAAAACCATCCTGCATACCAACATGCCAAATGTGAACGAGTTCATGTTTACCAATA
AGTTTAAGGCGCGGGTGTATGGTGTGCGGCTTGCTACTAAGGACAATCAGGTGGAGCTGAAATACGAGTG
GGTGGAGTTTACGCTGCCCCAGGGCAACTACTCCGAGACCATGACCATAGACCTTATGAACAACGCGATC
GTGGAGCACTACTTGAAAGTGGGCGAGACAGAACGGGGTCTGGAAAGCGACATCGGGGTAAAGTTTGACA
CCCGCAACTTCAGACTGGGGTTTGACCCCGTCACTGGTCTTGTGCTGCTGGGGTATATACAAACGAAGC
CTTCCATCCAGACATCATTTTGTCTGCCAGGATGCGGGGTGGACTTCACCCACAGCCGCTGAGCAACTTG
TTGGGCATCCGCAAGCGGCAACCCCTCCAGGAGGGCTTAGGATCACCTACGATGATCTGGAGGGTGGTA
ACATTCGCGCACTGTTGGATGTGGACGCTTACAGCGAGCTTGAAAGATGACACCGAACAGGGCGGGG
TGGCGCAGCGCGGACAGCAGTGGCAGCGCGGAGGAGAACTCAACGCGCGAGCCGCGGCAATG
CAGCCGGTGGAGGACATGAACGATCATGCCATTGCGCGCGACACCTTTGCCACACGGGCTGAGGAGAAGC
GCGCTGAGGCCGAAGCAGCGGCCGAAGCTGCCGCCCCGCTGCGCAACCCGAGGTGAGAAGCCTCAGAA
GAAACCGGTGATCAAAACCTTGACAGAGGACAGCAAGAAACGCAGTTACAACCTAATAAGCAATGACAGC
ACCTTCACCCAGTACCGCAGCTGGTACCTTGATACAACTACGGCGACCTCAGACCGGAATCCGCTCAT
GGACCTGCTTTGCACTCCTGACGTAACCTGCGGCTCGGAGCAGGTCTACTGGTGGTTGCCAGACATGAT
GCAAGACCCCGTGACCTTCCGCTCCACGCGCCAGATCAGCAACTTTCCGGTGGTGGGCGCCGAGCTGTTG
CCCGTGCACTCCAAGAGCTTCTACAACGACAGGCGCTTACTCCCACTCATCCGCCAGTTTACCTCTC
TGACCCACGTGTTCAATCGCTTTCCTGAGAACAGATTTTGGCGCGCCCGCAGCCCCACCATCACCAC
CGTCAGTGAAAACGTTCTGCTCTCACAGATCACGGGACGCTACCGCTGCGCAACAGCATCGGAGGAGTC
CAGCGAGTGACCATTAAGTACGCGCCAGACGCGCACCTGCCCTACGTTTACAAGGCCCTGGGCATAGTCT
CGCCGCGCGTCTATCGAGCCGCACTTTTGGAGCAAGCATGTCCATCCTTATATCGCCAGCAATAACAC
AGGCTGGGGCCTGCGCTTCCCAAGCAAGATGTTTGGCGGGGCCAAGAAGCGCTCCGACCAACACCCAGTG
CGCGTGCGCGGGCACTACCGCGCGCCTGGGGCGCGCACAAACGCGGCCGCACTGGGCGCACCCCGTCG
ATGACGCCATCGACCGGTGGTGGAGGAGGCGCGCAACTACACGCCACGCGGCCACAGTGTCCACAGT
GGACGCGGCCATTACAGACCGTGGTGGCGGAGCCCGGCGCTATGCTAAAATGAAGAGACGGCGGAGGCGC
GTAGACAGTGCACCCGCGCGGACCCGGCACTGCCGCCCAACGCGCGGCGGCGGCTGCTTAAACGCGC
CAGTCGCGACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
CCCCAGGTCCAGGCGACGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
GGCAACGTGTATTGGGTGCGCGACTCGGTTAGCGGCTGCGCGTGGCGTGGCGTGGCGTGGCGTGGCGTGG
ACTAGATTGCAAGAAAAAACTACTTAGACTCGTACTGTTGTATGTATCCAGCGGCGGCGGCGGCGCAACGA

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

AGCTATGTCCAAGCGCAAAATCAAAGAAGAGATGCTCCAGGTCATCGCGCCGAGATCTATGGCCCCCG
AAGAAGGAAGAGCAGGATTACAAGCCCCGAAAGCTAAAGCGGGTCAAAAAGAAAAGAAAGATGATGATG
ATGAACTTGACGACGAGGTGGAAGTCTGTCACGCTACCGCGCCAGGCGACGGGTACAGTGGAAGGTCTG
ACGCGTAAACGTGTTTTGCGACCCGGCACCACCGTAGTCTTTACGCCCGGTGAGCGCTCCACCCGCACC
TACAAGCGGTGTATGATGAGGTGTACGGCGACGAGGACCTGCTTGAGCAGGCCAACGAGCGCTCGGGG
AGTTTGCTACGGAAGCGGCATAAGGACATGCTGGCGTTGCCGCTGGACGAGGGCAACCAACACCTAG
CCTAAAGCCCGTAACACTGCAGCAGGTGCTGCCCGCGCTTGACCGTCCGAAGAAAAGCGCGGCCCTAAAG
CGCGAGTCTGGTGACTTGGCACCACCGTGCAGCTGATGGTACCCAAGCGCCAGCGACTGGAAGATGTCT
TGGAAAAAATGACCGTGGAACCTGGGCTGGAGCCCGAGGTCCGCGTGCAGGCAATCAAGCAGGTGGCGCC
GGGACTGGGCGTGCAGACCGTGGACGTTTACAGATACCCACTACCAGTAGCACCAGTATTGCCACCGCCACA
GAGGGCATGGAGACACAAACGTCCCCGTTGCCCTCAGCGGTGGCGGATGCCGCGGTGCAGGCGGTGCGTG
CGGCCGCGTCCAAGACCTCTACGGAGGTGCAAACGGACCCGTGGATGTTTTCGCGTTTTAGCCCCCGGCG
CCCGCGCGGTTTCGAGGAAGTACGGCGCCGCGCAGCGCGTACTGCCCGAATATGCCCTACATCCTTCCATT
GCGCCTACCCCCGGCTATCGTGGCTACACCTACCGCCCCAGAACGAGCAACTACCCGACGCGGAACCA
CCACTGGAACCCGCGCCGCGCGTCCGCGTCCGAGCCCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TCGCGAAGGAGGCGAGGACCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TTTGTGGTTCTTGCAGATATGGCCCTCACCTGCCGCTCCGTTTTCCCGGTGCCGGGATTCCGAGGAAGAA
TGACCGTAGGAGGGGCATGGCCGGCCACGGCTGACGGGCGCATGCGTCTGCGCACCACCGCGCGCG
GCGCGCGTGCACCGTGCATGCGCGGCGGTATCCTGCCCTCCTTATTCCACTGATCGCCGCGCGGAT
GGCGCCGTGCCCGGAATTGCATCCGTGGCCTTGACGGCGCAGAGACACTGATTAATAAACAAGTTGCATGT
GGAAAAATCAAAATAAAAAAGTCTGGACTCTACGCTCGCTTGGTCTGTAACTATTTTGTAGAATGGAAG
ACATCAACTTTGCGTCTCTGGCCCCGCGACACGGCTCGCGCCCGTTTCATGGGAACTGGCAAGATATCGG
CACCAGCAATATGAGCGGTGGCGCCTTCAGCTGGGGCTCGCTGTGGAGCGGCATTAAAAATTTTCGGTTCC
ACCGTTAAGAACTATGGCAGCAAGGCCTGGAACAGCAGCAGCAGGCCAGATGCTGAGGGAACTGAGTTGAAAG
AGCAAAATTTCCAACAAAAGGTGGTAGATGGCCTGGCCTCTGGCATTAGCGGGGTGGTGGACATTGGCCAA
CCAGGCAGTGCAAAATAAGATTAACAGTAAGCTTGATCCCCGCCCTCCCGTAGAGGAGCCTCCACCGGCC
GTGGAGACAGTGTCTCCAGAGGGGCGTGGCGAAAAGCGTCCGCGCCCGACAGGGAAGAACTCTGGTGA
CGCAATAGACGAGCCTCCCTCGTACGAGGAGGCATAAAGCAAGGCCTGCCACCAACCCGTCCCATCGC
GCCCCATGGCTACCGGAGTGCTGGGCGCAGCACACCCCGTAACGCTGGACCTGCCTCCCCCGCGGACACC
CAGCAGAAACCTGTGCTGCCAGGCCCCGACCGCGGTTGTTGTAACCCGTCCTAGCCGCGCGTCCCTGCGCC
GCGCCGCCAGCGGTCCGCGATCGTTGCGGCCCGTAGCCAGTGGCAACTGGCAAAGCACACTGAACAGCAT
CGTGGGTCTGGGGGTGCAATCCCTGAAGCGCCGACGATGCTTCTGAATAGCTAACGTGTCTGATGTGTGT
CATGTATGCGTCCATGTCGCGCCAGAGGAGCTGCTGAGCCGCGCGCGCCGCTTTCCAAGATGGCTAC
CCCTTCGATGATGCCGAGTGCTTACATGCACATCTCGGGCCAGGACGCTCGGAGTACCTGAGCCCC
GGGCTGGTGCAGTTTGCCCGCGCCACCGAGACGTACTTACGCTGAATAACAAGTTTAGAAACCCACGG
TGGCGCCTACGCACGACGTGACCACAGACCGGTCCAGCGTTTGACGCTGCGGTTTATCCCTGTGGACCG
TGAGGATACTGCGTACTCGTACAAGGCGCGGTTACCCCTAGCTGTGGGTGATAACCGTGTGCTGGACATG
GCTTCCACGTACTTTGACATCCGCGCGCTGTGAGACAGGGGCCCTACTTTTAAGCCCTACTCTGGCACTG
CCTACAACGCCCTGGCTCCCAAGGGTGCCCCAAATCCTTGCGAATGGGATGAAGCTGCTACTGCTCTTGA
AATAAACCTAGAAGAAGAGGACGATGACAACGAAGACGAAGTAGACGAGCAAGCTGAGCAGCAAAAACT
CACGTATTTGGGCAGGCGCCTTATTCTGGTATAAATATTACAAAGGAGGGTATTCAAATAGGTGTGCAAG
GTCAAACACCTAAATATGCCGATAAAACATTTCAACCTGAACCTCAAATAGGAGAATCTCAGTGGTACGA
AACTGAAATTAATCATGCAGCTGGGAGAGTCCCTAAAAAAGACTACCCCAATGAAACCATGTTACGGTTCA
TATGCAAAACCCACAAATGAAAATGGAGGGCAAGGCATCTTGTAAGCAACAAAATGGAAGCTAGAAA
GTCAAGTGGAATGCAATTTTCTCAACTACTGAGGCGACCGCAGGCAATGGTGATAACTTGACTCTTAA
AGTGGTATTGTACAGTGAAGATGTAGATATAGAAACCCAGACACTCATATTTCTTACATGCCCACTATT
AAGGAAGGTAACCTACGAGAACTAATGGGCAACAATCTATGCCAACAGGCCTAATTACATTGCTTTTA
GGGACAATTTTATTGGTCTAATGTATTACAACAGCAGGGTAATATGGGTGTTCTGGCGGGCCAAGCATC
GCAGTTGAATGCTGTTGTAGATTTGCAAGACAGAAACACAGAGCTTTCATACCAGCTTTTGCTTGATTCC
ATTGGTGATAGAACCAGGTACTTTCTATGTGGAATCAGGCTGTTGACAGCTATGATCCAGATGTTAGAA
TTATTGAAATCATGGAAGTGAAGATGAACCTTCCAAATTACTGCTTTCCACTGGGAGGTGTGATTAATAC
AGAGACTCTTACCAAGGTAAACCTAAACAGGTGAGGAAAATGGATGGGAAAAAGATGCTACAGAAATTT
TCAGATAAAAAATGAAAATAAGAGTTGGAAATAATTTTGCCATGGAAATCAATCTAAATGCCAACCTGTGGA
GAAATTTCTGTACTCCAACATAGCGCTGTATTTGCCCGACAAGCTAAAGTACAGTCCTTCCAACGTAAA
AATTTCTGATAACCCAAACACCTACGACTACATGAACAAGCGAGTGGTGGCTCCCGGGTTAGTGGACTGC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

TACATTAACCTTGGAGCACGCTGGTCCCCTTGACTATATGGACAACGTCAACCCATTTAACCACCACCGCA
ATGCTGGCCTGCGCTACCGCTCAATGTTGCTGGGCAATGGTCGCTATGTGCCCTTCCACATCCAGGTGCC
TCAGAAGTTCTTTGCCATTAAAAACCTCCTTCTCCTGCCGGGCTCATAACCTACGAGTGGAACCTCAGG
AAGGATGTTAACATGGTTCTGCAGAGCTCCCTAGGAAATGACCTAAGGGTTGACGGAGCCAGCATTAAAGT
TTGATAGCATTTGCCTTTACGCCACCTTCTTCCCCATGGCCCAACACCCGCTCCACGCTTGAGGCCAT
GCTTAGAAACGACACCAACGACCAGTCCCTTAAACGACTATCTCTCCGCCGCAACATGCTCTACCCCTATA
CCCGCCAACGCTACCAACGTGCCCATATCCATCCCCCTCCGCAACTGGGCGGCTTTCCGCGGCTGGGCTT
TCACGCGCCTTAAGACTAAGGAAACCCCATCACTGGGCTCGGGCTACGACCTTATTACACTACTCTGG
CTCTATACCCTACCTAGATGGAACCTTTTACCTCAACCACACCTTTAAGAAGGTGGCCATTACCTTTGAC
TCTTCTGTGCTGAGCTGGCCTGGCAATGACCGCTGCTTACCCCCAACGAGTTTGAAATTAAGCGCTCAGTTG
ACGGGGAGGGTTACAACGTTGCCAGTGTAACATGACCAAGACTGGTTCCTGGTACAAATGCTAGCTAA
CTACAACATTGGCTACCAGGGCTTCTATATCCCAGAGAGCTACAAGGACCGCATGTACTCCTTCTTTAGA
AACTTCCAGCCCATGAGCCGTCAGGTGGTGGATGATACTAAATACAAGGACTACCAACAGGTGGGCATCC
TACACCAACACAACAACCTCTGGATTTGTTGGCTACCTTGCCCCCACCATGCGCGAAGGACAGGCCTACCC
TGCTAACTTCCCCTATCCGCTTATAGGCAAGACCGCAGTTGACAGCATTACCCAGAAAAAGTTTCTTTG
GATCGCACCTTTGGCGCATCCCATTTCTCCAGTAACCTTATGTCCATGGGCGCACTCACAGACCTGGGCC
AAAACCTTCTCTACGCCAACTCCGCCACGCGCTAGACATGACTTTTGAGGTGGATCCCATGGACGAGCC
CACCTTCTTTATGTTTTGTTTGAAGTCTTTGACGTGGTCCGTGTGCACCGGCCGACCGCGGCGTCATC
GAAACCGTGCTACCTGCGCACGCCCTTCTCGGCCGGCAACGCCACAACATAAAGAAGCAAGCAACATCAAC
AACAGCTGCCGCCATGGGCTCCAGTGAGCAGGAAGTGAAGCCATTGTCAAAGATCTTGGTTGTGGGCCA
TATTTTTTGGGCACCTATGACAAGCGCTTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCGCCATAG
TCAATACGGCCGGTCGCGAGACTGGGGGCGTACACTGGATGGCCTTTGCCTGGAACCCGCACTCAAAAAC
ATGCTACCTCTTTGAGCCCTTTGGCTTTTCTGACCAGCGACTCAAGCAGGTTTACCAGTTTGAGTACGAG
TCACTCCTGCGCCGTAGCGCCATTGCTTCTTCCCCGACCGCTGTATAACGCTGGAAGTCCACCCAAA
GCGTACAGGGGCCAACTCGGCCGCTGTGAGTATTCTGCTGCATGTTTCTCCACGCTTTTGCCAACTG
GCCCCAACTCCCATGGATCACAAACCCACCATGAACCTTATTACCGGGTACCCAACTCCATGCTCAAC
AGTCCCCAGGTACAGCCCACCTGCGTCGCAACCAGGAACAGCTCTACAGCTTCTTGAGCGCCACTCGC
CCTACTTCCGAGCCACAGTGCGCAGATTAGGAGCGCCACTTCTTTTTGTCACTTGAAAAACATGTAAAA
ATAATGTACTAGAGACACTTTCAATAAAGGCAAATGCTTTTTATTTGTACTCTCGGGTGATTATTTACC
CCCACCTTGGCGTCTGCGCGCTTTAAAAATCAAAGGGGTTCTGCCGCGCATCGCTATGCGCCACTGGCA
GGGACACGTTGCGATACTGGTGTTAGTGCTCCACTTAAACTCAGGCACAACCATCCGCGGCAGCTCGGT
GAAGTTTTCACTCCACAGGCTGCGCACCATACCAACGCGTTTAGCAGGTGGGGCGCGGATATCTTGAAG
TCGCAGTTGGGGCTCCGCCCTGCGCGCGGAGTTGCGATACACAGGGTTGCAGCACTGGAACACTATCA
GCGCGGGTGGTGACGCTGGCCAGCACGCTTTGTGCGAGATCAGATCCGCGTCCAGGCTCTTCCGCTT
GCTCAGGGCGAAGCGAGTCAACTTTGGTAGTGCCTTCCCAAAAAGGGCGCGTGGCCAGGCTTTGAGTTG
CACTCGCACCGTAGTGGCATCAAAAGGTGACCGTGCCCGGTCTGGGCGTTAGGATACAGCGCTGCATAA
AAGCCTTGATCTGCTTAAAGGCCACCTGAGCCTTTGCGCCTTCAGAGAAGAATGCGCAAGACTTGCC
GGAACACTGATTGGCCGACAGGCCGCGTCTGTCACGCAGCACCTTGCCTCGGTGTTGGAGATCTGCACC
ACATTTCCGGCCCCACCGGTTCTTCACGATCTTGGCCTTGCTAGACTGCTCCTTCAGCGCGCGCTGCCCGT
TTTTCGCTCGTCAATCCATTTCAATCACGTGCTCCTTATTTATCATAATGCTTCCGTGTAGACACTTAAG
CTCGCCTTCGATCTCAGCGCAGCGGTGCGAGCCACAACGCGCAGCCCGTGGGCTCGTGATGCTTGTAGGTC
ACCTCTGCAAACGACTGCAGGTACGCTGCGAGGAATCGCCCCATCATCGTCACAAAGGTCTTGTGTCTGG
TGAAGGTGAGCTGCAACCCGCGGTGCTCCTCGTTGAGCGAGGTCTTGATACGGCCGCGAGCTTCCAC
TTGGTACAGCAGTAGTTTGAAGTTCGCCTTTAGATCGTTATCCACGTGGTACTTGTCCATCAGCGCGCGC
GCAGCCTCCATGCCCTTCTCCACGCAGACACGATCGGCACACTCAGCGGGTTCATCACCGTAATTTTAC
TTTCCGCTTCGCTGGGCTCTTCTCTTCTTCTTGCCTCGCATACCGCGCCACTGGGTGCTCTTCATT
CAGCCGCGCGACTGTGCGCTTACCTCCTTTGCCATGCTTGATTAGCACCGGTGGGTTGCTGAAACCCACC
ATTTGTAGCGCCACATCTTCTTCTTCTTCTTCTCGCTGTCCACGATTACCTCTGGTGATGGCGGGCGCTCGG
GCTTGGGAGAAGGGCGCTTCTTTTCTTCTTGGGCGCAATGGCCAAATCCGCCGCGGAGGTGATGGCCG
CGGGCTGGGTGTGCGCGGCACAGCGCGTCTTGTGATGAGTCTTCTCGTCTCGGACTCGATACGCCGC
CTCATCCGCTTTTTTGGGGGCGCCCGGGGAGCGCGCGGACGGGACGGGACGACACGCTCCTCCATGG
TTGGGGGACGTGCGCGCCGACCGGTCGCGCTCGGGGTGGTTTCGCGCTGCTCCTTCTCCGAGTGGC
CATTTCTTCTCTTATAGGCAGAAAAAGATCATGGAGTCAGTCGAGAAGAAGGACAGCCTAACCGCCCC
TCTGAGTTCGCCACCAACCGCTCCACCGATGCCGCCAACGCGCTACCACCTTCCCCGTCGAGGCACCCC
CGCTTGAGGAGGAGGAAGTGATTATCGAGCAGGACCCAGGTTTTGTAAGCGAAGACGACGAGGACCGCTC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

AGTACCAACAGAGGATAAAAAAGCAAGACCAGGACAACGCAGAGGCAAACGAGGAACAAGTCGGGCGGGGG
GACGAAAGGCATGGCGACTACCTAGATGTGGGAGACGACGTGCTGTTGAAGCATCTGCAGCGCCAGTGC
CCATTATCTGCGACGCGTTGCAAGAGCGCAGCGATGTGCCCTCGCCATAGCGGATGTCAGCCTTGCC
CGAACGCCACCTATTCTCACCAGCGGTACCCCCCAAACGCCAAGAAAACGGCACATGCGAGCCCAACCCG
CGCCTCAACTTCTACCCCGTATTTGCCGTGCCAGAGGTGCTTGCCACCTATCACATCTTTTTTCCAAAACT
GCAAGATACCCCTATCCTGCCGTGCCAACCGCAGCCGAGCGGACAAGCAGCTGGCCTTGCGGCAGGGCGC
TGTCATACCTGATATCGCCTCGCTCAACGAAGTGCCAAAAATCTTTGAGGGTCTTGACGCGCAGGAGAAG
CGCGCGGCAAACGCTCTGCAACAGGAAAACAGCGAAAATGAAAGTCACTCTGGAGTGTTGGTGGAACCTCG
AGGGTGACAACGCGCGCCTAGCCGTACTAAAACGCAGCATCGAGGTACCCACTTTGCCTACCCGGCACT
TAACCTACCCCCAAGGTCATGAGCACAGTTCATGAGTGAGCTGATCGTGCGCCGTGCGCAGCCCTGGAG
AGGGATGCAAATTTGCAAGAACAAACAGAGGAGGGCCTACCCGAGTTGGCGACGAGCAGCTAGCGCGCT
GGCTTCAAACGCGCGAGCCTGCCGACTTGAGGAGCGACGCAAACTAATGATGGCCGAGTGCTCGTTAC
CGTGAGGCTTGAGTGTCATGACGCGTCTTTGCTGACCCGGAGATGCAGCGCAAGCTAGAGGAAAACATTG
CACTACACCTTTTCGACAGGGCTACGTACGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGCAACCTGG
TCTCTACCTTGAATTTTGACGAAAACCGCCTTGGGCAAAACGTGCTTCAATCCACGCTCAAGGGCGA
GGCGCGCGCAGTACGTCGCGACTGCGTTTACTTATTCTATGCTACACCTGGCAGACGGCCATGGGC
GTTTGGCAGCAGTGCTTGAGGAGTGCAACCTCAAGGAGCTGCAGAACTGCTAAAGCAAACTTGAAGG
ACCTATGGACGGCCTTCAACGAGCGCTCCGTGGCGCGCACCTGGCGGACATCATTTTCCCCGAACGCCCT
GCTTAAACCCCTGCAACAGGGTCTGCCAGACTTCACCACTCAAAGCATGTTGCAGAACTTTAGGAACCTT
ATCCTAGAGCGCTCAGGAATCTTGCCCGCCACCTGCTGTGCACTTCCTAGCGACTTTGTGCCCATTAAGT
ACCGCGAATGCCCTCCGCCGCTTTGGGGCCACTGCTACCTTCTGCAGCTAGCCAACCTACCTTGCCACCA
CTCTGACATAATGGAAGACGTGAGCGGTGACGGTCTACTGGAGTGTCAGTGTGCTGCAACCTATGCACC
CCGCACCGCTCCCTGGTTTGCAATTCGCAGCTGCTTAACGAAAGTCAAATTATCGGTACCTTTGAGCTGC
AGGGTCCCTCGCCTGACGAAAAGTCCCGCGCTCCGGGGTTGAACTCACTCCGGGGCTGTGGACGTGGC
TTACTTTCGCAAAATTTGTACCTGAGGACTACCAAGCCACGAGATTAGGTTCTACGAAGACCAATCCCGC
CCGCCAAATGCGGAGCTTACCGCTGCGTCAATTACCCAGGGCCACATTCTTGCCCAATTGCAAGCCATCA
ACAAAGCCCGCCAAGAGTTTCTGCTACGAAAGGGACGGGGGGTTTACTTGGACCCCCAGTCCGGCGAGGA
GCTCAACCCAATCCCCCGCGCGCCGAGCCCTATCAGCAGCAGCCGCGGGCCCTTGCTTCCAGGATGGC
ACCCAAAAAGAAGCTGCAGCTGCCGCCGCCACCCACGGACGAGGAGGAATACTGGGACAGTCAGGCAGAG
GAGGTTTTGGACGAGGAGGAGGAGGACATGATGGAAGACTGGGAGAGCCTAGACGAGGAAGCTTCCGAGG
TCGAAGAGGTGTGACAGCAAAACACCGTCACCCCTCGGTGCGATTCCCCTCGCCGGCGCCCCAGAAATCGGC
AACCAGTTCCAGCATGGCTACAACCTCCGCTCCTCAGGCGCCGCGGCACTGCCCGTTCCGCCGACCCAAC
CGTAGATGGGACACCACTGGAACAGGGCCGGTAAAGTCCAAGCAGCCGCGCGCTTAGCCCAAGAGCAAC
AACAGCGCAAAGGCTACCGCTCATGGCGCGGGCACAGAACGCCATAGTTGCTTGTGCTTGCAAGACTGTGG
GGGCAACATCTCCTTCGCCCCGCGCTTTCTTCTCTACCATCACGGCGTGGCCTTCCCCCGTAAACATCCTG
CATTACTACCGTCATCTCTACAGCCCATCTGCACCGGCGGCAGCGGCAGCGGCAGCAACAGCAGCGGCC
ACACAGAAGCAAAGGCGACCGGATAGCAAGACTCTGACAAAGCCCAAGAAATCCACAGCGGCGGCAGCAG
CAGGAGGAGGAGCGCTGCGTCTGGCGCCCAACGAACCCGTATCGACCCGCGAGCTTAGAAACAGGATTTT
TCCCACTCTGTATGCTATATTTCAACAGAGCAGGGGCCAAGAACAAGAGCTGAAAATAAAAAACAGGTCT
CTGCGATCCCTCACCCGAGCTGCCTGTATCACAAAAGCGAAGATCAGCTTCGGCGCACGCTGGAAGACG
CGGAGGCTCTCTCAGTAAATACTGCGCGCTGACTCTTAAGGACTAGTTTCGCGCCCTTTCTCAAATTTA
AGCGCGAAAACTACGTCTATCTCCAGCGGCCACACCCGGCGCCAGCACCTGTGTCAGCGCCATTATGAGC
AAGGAAATTTCCACGCCCCATCATGTGGAGTTACCAGGCCACAAATGGGACTTGCGGCTGGAGCTGCCCAAG
ACTACTCAACCCGAATAAACTACATGAGCGCGGGACCCACATGATATCCCGGGTCAACGGAATCCGCGC
CCACCGAAACCGAATTCTCTTGGAACAGGCGGCTATTACCACACACCTCGTAATAACCTTAATCCCCGT
AGTTGGCCCGCTGCCCTGGTGTACCAGGAAAGTCCCGCTCCACCACTGTGGTACTTCCAGAGACGCCC
AGGCCGAAGTTTCAAGTACTAAGTCAAGGGGCGCAGCTTGCGGGCGGCTTTGCTCACAGGGTGCGGTGCGC
CGGGCAGGGTATAACTCACTGACAATCAGAGGGCGAGGTATTAGCTCAACGACGAGTCGGTGAGCTCC
TCGCTTGGTCTCCGTCCGGACGGGACATTTAGATCGGCGGCGCGGCGCGTCTTCAATTCACGCTCGTC
AGGGAATCTTAACCTCTGCAGACCTCGTCTCTGAGCCGCGCTCTGGAGGCATTGGAACCTCTGCAATTTAT
TGAGGAATTTGTGCCATCGGTCTACTTTAACCCCTTCTCGGGACCTCCCGCCACTATCCGGATCAATTT
ATTCTTAACCTTTGACGCGGTAAAGGACTCGGCGGACGGCTACGACTGAATGTTAAGTGAGAGGCAGAGC
AACTGCGCCTGAAACACCTGGTCCACTGTGCGCGCCACAAGTGCTTTGCCCGCGACTCCGGTGAGTTTGTG
CTACTTTGAATTGCCCCAGGATCATATCGAGGGCCCGGCGCACGGCGTCCGGCTTACCGCCAGGGAGAG
CTTGCCCGTAGCCTGATTCGGGAGTTTACCAGCGCCCCCTGCTAGTTGAGCGGGACAGGGACCCCTGTG

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

TTCTCACTGTGATTTGCAACTGTCCTAACCTTGGATTACATCAAGATCTTTGTTGCCATCTCTGTGCTGA
GTATAATAAATACAGAAATTTAAATATACTGGGGCTCCTATCGCCATCCTGTAAACGCCACCGTCTTCAC
CCGCCCCAAGCAAACCAAGGCGAACCTTACCTGGTACTTTTAAACATCTCTCCCTCTGTGATTTACAACAGT
TTCAACCCAGACGGAGTGAGTCTACGAGAGAACCTCTCCGAGCTCAGCTACTCCATCAGAAAAAACACCA
CCCTCCTTACCTGCCGGGAACGTACGAGTGCGTCACCGGCCGCTGCACCACACCTACCGCCTGACCGTAA
ACCAGACTTTTTCCGGACAGACCTCAATAACTCTGTTTACCAGAACAGGAGGTGAGCTTAGAAAAACCTT
AGGGTATTAGGCCAAAGGCGCAGCTACTGTGGGGTTTATGAACAATTCAAGCAACTCTACGGGCTATTCT
AATTCAGGTTTCTCTAGAAATGGACGGAATTATTACAGAGCAGCGCCTGCTAGAAAGACGCAGGGCAGCG
GCCGAGCAACAGCGCATGAATCAAGAGCTCCAAGACATGGTTAACTTGCACCAGTGCAAAAAGGGGTATCT
TTTGTCTGGTAAAGCAGGCCAAAGTCACCTACGACAGTAATACCACGGACACCGCCTTAGCTACAAGTT
GCCAACCAAGCGTCAGAAATTGGTGGTCATGGTGGGAGAAAAGCCATTACCATAACTCAGCACTCGGTA
GAAACCGAAGGCTGCATTCACTCACCTTGTCAAGGACCTGAGGATCTCTGCACCCCTTATTAAGACCCTGT
GCGGTCTCAAAGATCTTATTCCTTTAACTAATAAAAAAATAATAAAGCATCACTTACTTAAAAATCAG
TTAGCAAAATTTCTGTCCAGTTTATTCAGCAGCACCTCCTTGCCCTCCTCCCAGCTCTGGTATTGCAGCTT
CCTCCTGGCTGCAAACTTTCTCCACAATCTAAATGGAATGTCAAGTTTCTCCTGTTTCTGTCCATCCGCA
CCCACATCTTCTCATGTTGTGTCAGATGAAGCGCGCAGACCGTCTGAAGATACCTTCAACCCCGTGTATC
CATATGACACGGAAACCGGTCTCCAACCTGTGCCTTTTCTTACTCCTCCCTTTGTATCCCCCAATGGGTT
TCAAGAGAGTCCCCCTGGGGTACTCTCTTTGCGCCTATCCGAACCTCTAGTTACCTCCAATGGCATGCTT
GCGCTCAAAATGGGCAACGGCCTCTCTCTGGACGAGGCGGCAACCTTACCTCCCAAAATGTAACCACTG
TGAGCCACCTCTCAAAAAACCAAGTCAAACATAAACCTGGAAATATCTGCACCCCTCACAGTTACCTC
AGAAGCCCTAACTGTGGTGGTCCGCGCACCTCTAATGGTTCGCGGGCAACACACTCACCATGCAATCACAG
GCCCCGCTAACCGTGCACGACTCCAAACTTAGCATTGCCACCCAAGGACCCCTCACAGTGTGAGAAGGAA
AGCTAGCCCTGCAAAACATCAGGCCCCCTCACCACCACCGATAGCAGTACCCTTACTATCACTGCCTCACC
CCCTCTAACTACTGCCACTGGTAGCTTGGGCATTGACTTGAAAGAGCCCATTTATACACAAAATGGAAAA
CTAGGACTAAAGTACGGGGCTCCTTTGCATGTAAACAGACGCTTAAACACTTTGACCGTAGCAACTGGTC
CAGGTGTGACTATTAATAATACTTCTTGGCAAATAAGTTACTGGAGCCTTGGGTTTGTGATTACAAAGG
CAATATGCAACTTAATGTAGCAGGAGGACTAAGGATTGATTCTCAAAACAGACGCCTTATACTTGATGTT
AGTTATCCGTTTGTATGCTCAAAACCAACTAAATCTAAGACTAGGACAGGGCCCTCTTTTTATAAACTCAG
CCCACAACTTGGATATTAACACTACAACAAAGGCCCTTTACTTGTTTACAGCTTCAAACAATTCCAAAAAGCT
TGAGGTTAACCTAAGCACTGCCAAGGGGTTGATGTTTGTAGCTACAGCCATAGCCATTAATGCAGGAGAT
GGGCTTGAATTTGGTTACCTAATGCACCAAAACAAAATCCCCCTCAAAACAAAAATTTGGCCATGGCCTAG
AATTTGATTCAAACAAGGCTATGGTTTCCTAACTAGGAAGTGGCCTTAGTTTGTAGCAGCACAGGTGCCAT
TACAGTAGGAAACAAAAATAATGATAAGCTAACTTTGTGGACCACACCAGCTCCATCTCCTAACTGTAGA
CTAAATGCAGAGAAAGATGCTAAACTCACTTTGGTCTTAAACAAAATGTGGCAGTCAAATACTTGCTACAG
TTTCAGTTTGTGGCTGTAAAGGCAGTTTGGCTCCAATATCTGGAACAGTTCAAAGTGCTCATCTTATAT
AAGATTTGACGAAAAATGGAGTGCTACTAAACAATTCCTTCTGGACCCAGAATATTGGAACCTTTAGAAAT
GGAGATCTTACTGAAGGCACAGCCTATACAAACGCTGTTGGATTTATGCCTAACCTATCAGCTTATCCAA
AATCTCACGGTAAACTGCCAAAAGTAACATTGTCAAGTTTACTTAAACGGAGACAAAATAAACC
TGTAACACTAACCATTACACTAAACGGTACACAGGAAACAGGAGACACAACCTCCAAGTGCATACTCTATG
TCATTTTTCATGGGACTGGTCTGGCCACAACCTACATTAATGAAATATTTGCCACATCCTCTTACACTTTTT
CATACATTTGCCCAAGAATAAAGAAATCGTTTGTGTTATGTTTCAACGTGTTTATTTTTCAATTGCAGAAAA
TTTTCGAATCATTTTTTCATTAGTAGTATAGCCCCACCACCACATAGCTTATACAGATCACCGTACCTTAA
TCAAACCTCACAGAACCCCTAGTATTCAACCTGCCACCTCCCTCCCAACACACAGAGTACACAGTCTTTCT
CCCCGGCTGGCCTTAAAAAGCATCATATCATGGGTAACAGACATATTCTTAGGTGTTATATTCCACACGG
TTTCTGTGTCGAGCCAAACGCTCATCAGTGATATTAATAAACTCCCCGGGCAGCTCACTTAAGTTTCATGTC
GCTGTCCAGCTGCTGAGCCACAGGCTGCTGTCCAACCTTGCGGTTGCTTAACGGGCGGCGAAGGAGAAGTC
CACGCCATACATGGGGGTAGAGTCATAATCGTGCATCAGGATAGGGCGGTGGTGTCTGCAGCAGCGCGGAA
TAAACTGCTGCCGCCGCCGCTCCGTCTGCAGGAATACAACATGGCAGTGGTCTCCTCAGCGATGATTCG
CACCGCCCCGACGATAAGGCGCCTTGTCCTCCGGGCACAGCAGCGCACCTGATCTCACTTAAATCAGCA
CAGTAACTGCAGCACAGCACCACAATATTGTTCAAAATCCCACAGTGCAAGGCGCTGTATCCAAAGCTCA
TGGCGGGGACCACAGAACCACAGTGGCCATATACCACAAGCGCAGGTAGATTAAAGTGGCGACCCCTCAT
AAACACGCTGGACATAAAACATTACCTCTTTTGGCATGTTGTAATTCAACCTCCCGGTACCATATAAAC
CTCTGATTAAACATGGCGCCATCCACCACCATCTTAAACCAGCTGGCCAAAACCTGCCCCGGGCTATAC
ACTGCAGGGAACCGGGACTGGAACAATGACAGTGGAGAGCCAGGACTCGTAACCATGGATCATCATGCT
CGTCATGATATCAATGTTGGCACAACACAGGCACACGTGCATACACTTCTCAGGATTACAAGCTCTCC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

CGCGTTAGAACCATATCCCAGGGAACAACCCATTCTCTGAATCAGCGTAAATCCCACACTGCAGGGAAGAC
CTCGCACGTAACCTACGTTGTGCATTGTCAAAGTGTTACATTCCGGGCAGCAGCGGATGATCCTCCAGTAT
GGTAGCGCGGGTTTCTGTCTCAAAGGAGGTAGACGATCCCTACTGTACGGAGTGCGCCGAGACAACCGA
GATCGTGTTGGTCGTAGTGTCTATGCCAAATGGAACGCCGACGTAGTCATATTTCTGAAGCAAAACCAG
GTGCGGGCGTGACAAACAGATCTGCGTCTCCGGTCTCGCCGCTTAGATCGCTCTGTGTAGTAGTTGTAGT
ATATCCACTCTCTCAAAGCATCCAGGCGCCCCCTGGCTTCGGGTTCTATGTAAACTCCTTCATGCGCCGC
TGCCCTGATAACATCCACCACCGCAGAATAAGCCACACCCAGCCAACCTACACATTGCTTCTGCGAGTCA
CACACGGGAGGAGCGGGAAGAGCTGGAAGAACCATGTTTTTTTTTTTATTCCAAAAGATTATCCAAAACC
TCAAATGAAGATCTATTAAGTGAACGCGCTCCCCCTCCGGTGGCGTGGTCAAACCTCTACAGCCAAAAGAAC
AGATAATGGCATTGTGAAGATGTTGCACAATGGCTTCCAAAAGGCAAACGGCCCTCACGTCCAAGTGGAC
GTAAAGGCTAAACCCCTTCAGGGTGAATCTCCTCTATAAACATTCCAGCACCTTCAACCATGCCCAAATAA
TTCTCATCTCGCCACCTTCTCAATATATCTCTAAGCAAATCCCGAATATTAAGTCCGGCCATTGTAAAAA
TCTGCTCCAGAGCGCCCTCCACCTTCAGCCTCAAGCAGCGAATCATGATTGCAAAAATTCAGGTTCTCTCA
CAGACCTGTATAAGATTCAAAAAGCGGAACATTAACAAAAATACCGCGATCCCGTAGGTCCCTTCGCAGGG
CCAGCTGAACATAATCGTGCAGGTCTGCACGGACAGCGCGGCCACTTCCCCGCCAGGAACCTTGACAAA
AGAACCCACACTGATTATGACACGCATACTCGGAGCTATGCTAACCAGCGTAGCCCCGATGTAAGCTTTG
TTGCATGGGCGGCGATATAAAAATGCAAGGTGCTGCTCAAAAAATCAGGCAAAGCCTCGCGCAAAAAGAA
AGCACATCGTAGTCATGCTCATGCAGATAAAGGCAGGTAAAGCTCCGGAACCACCACAGAAAAAGACACCA
TTTTTCTCTCAAACATGTCTGCGGGTTTCTGCATAAACACAAAATAAAATAACAAAAAACATTTAAACA
TTAGAAGCCTGTCTTACAACAGGAAAAACAACCCCTTATAAGCATAAGACGGACTACGGCCATGCCGGCGT
GACCGTAAAAAACTGGTCAACCGTGATTAAAAAGCACCACCGACAGCTCCTCGGTCATGTCCGGAGTCAT
AATGTAAGACTCGGTAAACACATCAGGTTGATTACATCGGTCAAGTGCTAAAAAGCGACCGAAATAGCCC
GGGGGAATACATACCCGACGGCGTAGAGACAACATTACAGCCCCCATAGGAGGTATAACAAAATTAATAG
GAGAGAAAAACACATAAACACCTGAAAAACCCCTCTGCCTAGGCAAATAGCACCCCTCCCGCTCCAGAAC
AATACACAGCGCTTCCACAGCGGCAGCCATAACAGTCAGCCTTACCAGTAAAAAAGAAACCTATTAAAA
AAACACCACTCGACACGGCACCAGCTCAATCAGTCACAGTGTAATAAAGGGCCAAGTGCAGAGCATGAT
ATATAGGACTAAAAAATGACGTAACGGTTAAAGTCCACAAAAAACACCCAGAAAACCGCACGCGAACCTA
CGCCAGAAACGAAAGCCAAAAAACCCACAACCTTCTCAAATCGTCACTTCCGTTTTCCACGTTACGTC
ACTTCCCATTTTAAAGAACTACAATTCCCAACACATAACAAGTTACTCCGCCCTAAAACCTACGTCACCC
GCCCCGTTCCACGCCCCGCGCCACGTCACAACTCCACCCCTCATTATCATATTGGCTTCAATCCAAA
ATAAGGTATATTATTGATGATGTTAATTAATTTAAATCCGCATGCGATATCGAGCTCTCCCGGGAATTCTG
GATCTGCGACGCGAGGCTGGATGGCCTTCCCCATTATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCC
CGCGTTGCAGGCCATGTGTCCAGGCAGGTAGATGACGACCATCAGGGACAGCTTCACGGCCAGCAAAAG
GCCAGTAACCGTAAAAAGCCCGCTTGCTGCGCTTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACA
AAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTTCCCTGG
AAGCTCCCTCGTGCGCTCTCCTGTTCCGACCTGCGCGTTACCGGATACCTGTCCGCCTTTCTCCCTTCG
GGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCCGTTGAGGTGCTTCCGCTCCAAGC
TGGGCTGTGTGCACGAACCCCCGTTACGCCCAGCGCTGCGCCTTATCCGGTAACCTATCGTCTTGAGTC
CAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTAT
GTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCTAACCTACGGCTACACTAGAAGGACAGTATTTGGTA
TCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCAC
CGCTGGTAGCGGTGGTTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGAT
CCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACCTACGTTAAGGGATTTTGGTCATGA
GATTATCAAAAAGGATCTTACCTAGATCCTTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCT
GACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCTTCATCCATAGTTG
CCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGAT
ACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACAGCCAGCCGGAAGGGCCGAGCGC
AGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGAAGCTAGAGTAAGTA
GTTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGNTGCAGGCATCGTGGTGTACGCTCGTCTGTT
TGGTATGGCTTCATTACGCTCCGGTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAA
AAAGCGGTTAGCTCCTTCGGTCTCCGATCGTTGTGCAAGTAAGTTGGCCGAGTGTATCACTCATGTTG
TTATGGCAGCTGCATAATTCTTACTGTCTATGCCATCCGTAAGATGCTTTTTCTGTGACTGGTGATGA
CTCAACCAAGTCATTCTGAGAATAGTGATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAACACGGGAT
AATACCGCGCCACATAGCAGAACTTTAAAGTGCTCATCATTTGGAAAACGTTCTTCGGGGCGAAAACTCT
CAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACCTGATCTTCAGCATC

Table 10 (continued) Nucleotide sequence of pAd/PL-DEST™ (SEQ ID NO: 87).

TTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAACAGGAAGGCAAAATGCCGCAAAAAGGGAATAAGG
GCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTATCAGGGTTATT
GTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCC
CCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAACTATAAAAAATAGGCGTATC
ACGAGGCCCTTTCGTCTTCAAGGATCCGAATTCCCGGGAGAGCTCGATATCGCATGCGGATTTAAATTAA
TTAA

Please amend Table 11 on pages 385-394 as follows:

Table 11: Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™ (SEQ ID NO: 88).

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CATCATCAATAATATACCTTATTTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGTTTGTGACGTG
GCGCGGGGCGTGGGAACGGGGCGGGTGACGTAGTAGTGTGGCGGAAGTGTGATGTTGCAAGTGTGGCGGA
ACACATGTAAGCGACGGATGTGGCAAAAAGTGACGTTTTTGGTGTGCGCCGGTGTACACAGGAAGTGACAA
TTTTTCGCGCGGTTTTAGGCGGATGTTGTAGTAAATTTGGGCGTAACCGAGTAAGATTTGGCCATTTTCGC
GGGAAAAGTGAATAAGAGGAAGTGAAATCTGAATAATTTTGTGTTACTCATAGCGCGTAATATTTGTCTA
GGGCCGCGGGGACTTTGACCGTTTACGTGGAGACTCGCCAGGTGTTTTTCTCAGGTGTTTTCCGCGTTC
CGGGTCAAAGTTGGCGTTTTATTATTATAGTCAAGCTTGGATCCGGTACCTCTAGAATTCTCGAG
CGGCCGCTAGCGACATCGGATCTCCCGATCCCCATGCTCGACTCTCAGTACAATCTGCTCTGATGCCGC
ATAGTTAAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAA
GCTACAACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGC
TTCGCGATGTACGGGCCAGATATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTAC
GGGGTCATTAGTTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCTGGC
TGACCGCCCAACGACCCCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGA
CTTTCCATTGACGTCAATGGGTGGACTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGATCA
TATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCAGTACATG
ACCTTATGGGACTTTCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGT
TTTGGCAGTACATCAATGGGCGTGATAGCGTTTGACTCACGGGGATTTCAGTCTCCACCCCATTTGA
CGTCAATGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTGTAACAACTCCGCCCA
TTGACGCAAAATGGGCGGTAGGCGGTGACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAG
AACCCTACTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGTTAAG
CTATCAACAAGTTTGTACAAAAAGCAGGCTCCGCGGCCGCCCTTACCATGATAGATCCCGTCGTTT
TACAACGTCGTGACTGGGAAAACCTGGCGTTACCCAACTTAATCGCCTTGACGACATCCCCCTTTCGC
CAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAA
TGGCGCTTTGCGCTGTTTCCGGCACCAGAAGCGGTGCCGGAAGCTGGCTGGAGTGCGATCTTCTGAGG
CCGATACTGTCTGCTGCCCTCAAACCTGGCAGATGCACGGTTACGATGCGCCCATCTACACCAACGTAAC
CTATCCCATTACGGTCAATCCGCCGTTTGTTCACGGAGAATCCGACGGGTGTTTACTCGCTCACATTT
AATGTTGATGAAGCTGGCTACAGGAAGGCCAGACGCGAATTATTTTTGATGGCGTTAACTCGGCGTTTC
ATCTGTGGTGCAACGGGCGTGGGTGCGTTACGGCCAGGACAGTCGTTTGCCGTCTGAATTTGACCTGAG
CGCATTTTTACGCGCCGAGAAAACCGCTCGCGGTGATGGTGCTGCGTTGGAGTGACGGCAGTTATCTG
GAAGATCAGGATATGTGGCGGATGAGCGGCATTTTCCGTGACGTCTCGTTGCTGCATAAACCGACTACAC
AAATCAGCGATTTCCATGTTGCCACTCGCTTTAATGATGATTTAGCCGCGCTGTACTGGAGGCTGAAGT
TCAGATGTGCGGCGAGTTGCGTGACTACCTACGGGTAACAGTTTCTTTATGGCAGGGTGAAACGCAGGTC
GCCAGCGGCACCGCGCCTTTCCGGCGGTGAAATTATCGATGAGCGTGGTGGTTATGCCGATCGCGTCACAC
TACGTCTGAACGTGCAAAAACCCGAACTGTGGAGCGCCGAAATCCCGAATCTCTATCGTGCGGTGGTTGA
ACTGCACACCGCGACGCGCACGCTGATTGAAGCAGAAGCCTGCGATGTGCGTTTCCGCGAGGTGCGGATT
GAAAATGGTCTGCTGCTGAACGGCAAGCGTTGCTGATTTCGAGGCGTTAACCGTCACGAGCATC
CTCTGCATGGTCAGGTCATGGATGAGCAGACGATGGTGCAGGATATCCTGCTGATGAAGCAGAACCACTT
TAACGCGGTGCGCTGTTTCGCATTATCCGAACCATCCGCTGTGGTACACGCTGTGCGACCGCTACGGCCTG
TATGTGGTGGATGAAGCCAATATTGAAACCCACGGCATGGTGCCAATGAATCGTCTGACCGATGATCCGC
GCTGGCTACCGGCGATGAGCGAACGCGTAACGCGAATGGTGCAGCGCGATCGTAATCACCCGAGTGATGAT
CATCTGGTCTGCTGGGGAATGAATCAGGCCACGGCGCTAATCAGACGCGCTGTATCGCTGGATCAAATCT
GTCGATCCTTCCCGCCCCGGTGACGTATGAAGGCGGCGGAGCCGACACCACGGCCACCGATATTATTTGCC
CGATGTACGCGCGCGTGATGAAGACCAGCCCTTCCCGGCTGTGCCGAAATGGTCCATCAAAAAATGGCT
TTTCGCTACCTGGAGAGACGCGCCCGCTGATCCTTTGCGAATACGCCACGCGATGGGTAACAGTCTTGGC
GGTTTTCGCTAAATACTGGCAGGCGTTTCGTGATGATCCCGTTTACAGGGCGGCTTCGCTCTGGGACTGGG
TGGATCAGTCGCTGATTAAATATGATGAAAACGGCAACCCGTGGTGGCTTACGGCGGTGATTTTGGCGA
TACGCCGAACGATCGCCAGTTCTGTATGAACGGTCTGGTCTTTGCCGACCGACGCGCATCCAGCGCTG
ACGGAAGCAAAACACCAGCAGCAGTTTTTCCAGTTCCGTTTATCCGGGCAAACCATCGAAGTGACCAGCG
AATACCTGTTCCGTCATAGCGATAACGAGCTCCTGCACTGGATGGTGGCGCTGGATGGTAAGCCGCTGGC
AAGCGGTGAAGTGCTCTGGATGTCGCTCCACAAGGTAAACAGTTGATTGAACTGCCTGAACTACCGCAG
CCGGAGAGCGCCGGGCAACTCTGGCTCACAGTACGCGTAGTGCAACCGAACGCGACCGCATGGTCAGAAAG
CCGGGCACATCAGCGCCTGGCAGCAGTGGCGTCTGGCGGAAAACCTCAGTGTGACGCTCCCCGCCGCGTC
CCACGCCATCCCGCATCTGACCACCAGCGAAATGGATTTTTGCATCGAGCTGGGTAATAAGCGTTGGCAA
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Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

TTTAACCGCCAGTCAGGCTTTCTTTTCACAGATGTGGATTGGCGATAAAAAACAACCTGCTGACGCCGCTGC
GCGATCAGTTTACCCGTGCACCGCTGGATAACGACATTGGCGTAAGTGAAGCGACCCGATTGACCTAA
CGCCTGGGTGCAACGCTGGAAGGCGGCGGCCATTACCAGGCCGAAGCAGCGTTGTTGACGTGCACGGCA
GATACACTTGCTGATGCGGTGCTGATTACGACCGCTCACGCGTGGCAGCATCAGGGGAAAACCTTATTTA
TCAGCCGGAACCTACCGGATTGATGGTAGTGGTCAAATGGCGATTACCGTTGATGTTGAAGTGGCGAG
CGATACACCGCATCCGGCGCGGATTGGCCTGAACTGCCAGCTGGCGCAGGTAGCAGAGCGGGTAAACTGG
CTCGGATTAGGGCCGCAAGAAAATATCCCGACCGCCTTACTGCCGCCTGTTTTGACCGCTGGGATCTGC
CATTGTGACAGATGTATACCCCGTACGTCTTCCCGAGCGAAAACGGTCTGCGCTGCGGGACGCGCAATT
GAATTATGGCCACACACAGTGGCGCGGCGACTTCCAGTTCAACATCAGCCGCTACAGTCAACAGCAACTG
ATGGAACACAGCCATCGCCATCTGCTGCACGCGGAAGAAGGCACATGGCTGAATATCGACGGTTTCCATA
TGGGGATTGGTGGCGACGACTCCTGGAGCCCGTCAGTATCGGCGGAGTTCCAGCTGAGCGCCGGTTCGCTA
CCATTACAGTTGGTCTGGTGTCAAAAACTAAGGGTGGGCGCGCCGACCCAGCTTTCTTGTAACAAGTG
GTTGATCTAGAGGGCCCGCGGTTCGAAGGTAAGCCTATCCCTAACCTCTCCTCGGTCTCGATTCTACGC
GTACCGGTTAGTAATGAGTTTAAACGGGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAA
CCCGCGCTATGACGGCAATAAAAAAGACAGAATAAAACGCACGGGTGTTGGGTGCTTTGTTTCATAAACCGC
GGGTTTCGGTCCCAGGGCTGGCACTCTGTGATACCCACCGAGACCCATTGGGGCCAATACGCCCCGCT
TTCTTCTTTTCCCCACCCACCCCAAGTTTCGGGTGAAGGCCAGGGCTCGCAGCCAACGTCGGGGCG
GCAGGCCCTGCCATAGCAGATCCGATTTCGACAGATCACTGAAATGTGTGGGCGTGGCTTAAGGGTGGGAA
AGAATATATAAGGTGGGGGTCTTATGTAGTTTGTATCTGTTTTCAGCAGCCGCCCGCCCATGAGCAC
CAACTCGTTTGTATGGAAGCATTGTGAGCTCATATTTGACAACGCGCATGCCCCATGGGCCGGGTGCGT
CAGAATGTGATGGGCTCCAGCATTGATGGTCGCCCCGTCTGCGCGCAAACCTCTACTACCTTGACCTACG
AGACCGTGTCTGGAACGCCGTTGGAGACTGCAGCCTCCGCCCGCGCTTCAGCCGCTGCAGCCACCGCCCG
CGGGATTGTGACTGACTTTGCTTTCTGAGCCCGCTTGAAGCAGTGCAGCTTCCCGTTTCATCCGCCCGC
GATGACAAGTTGACGGCTCTTTTGGCACAATTGGATTCTTTGACCCGGGAACCTTAATGTCTGTTTCTCAGC
AGCTGTGTGATCTGCGCCAGCAGGTTTCTGCCCTGAAGGCTTCTCCCTCCCAATGCGGTTTAAACAT
AAATAAAAAACAGACTCTGTTTGGATTGGATCAAGCAAGTGTCTTGCTGTCTTTATTTAGGGGTTTTG
CGCGCGGGTAGGCCCGGGACAGCGGTCTCGGTCTGAGGGTCTGTGTATTTTTTCCAGGACGTGGT
AAAGGTGACTCTGGATGTTTCAGATACATGGGCATAAGCCCGTCTCTGGGGTGGAGGTAGCACCACTGCAG
AGCTTCATGCTGCGGGGTGGTGTGTAGATGATCCAGTCGTAGCAGGAGCGCTGGGCGTGGTGCCTAAAA
ATGTCTTTTCAGTAGCAAGCTGATTGCCAGGGGCAGGCCCTTGGTGTAAAGTGTTTACAAAGCGGTAAAGCT
GGGATGGGTGCATACGTGGGGATATGAGATGCATCTTGGACTGTATTTTTAGGTTGGCTATGTTCCCAGC
CATATCCCTCCGGGGATTTCATGTTGTGCAAGAACCCAGCACAGTGTATCCGGTGCACCTTGGGAAATTTG
TCATGTAGCTTAGAAGGAAATGCGTGGAAGAACTTGGAGACGCCCTTGTGACCTCCAAGATTTTCCATGC
ATTCGTCCATAATGATGGCAATGGGCCACGGGCGCGCGCTGGGCGAAGATATTTCTGGGATCACTAAC
GTCATGTTGTGTTTCCAGATGAGATCGTCAAGGCGCATTTTTTACAAAGCGCGGGCGGAGGTGACAGC
TGCGGTATAATGGTTCCATCCGGCCCCAGGGGCGTAGTTACCCTCACAGATTTGCATTTCCCACGCTTTGA
GTTTCAGATGGGGGATCATGTCTACCTGCGGGGCGATGAAGAAAACGGTTTCCGGGGTAGGGGAGATCAG
CTGGGAAGAAAGCAGGTTCTTGAGCAGCTGCGACTTACCGCAGCCGGTGGGCCCCGTAATCACACCTATT
ACCGGGTGCAACTGGTAGTTAAGAGAGCTGCAGCTGCCGTTCATCCCTGAGCAGGGGGGCCACTTCGTAA
GCATGTCCCTGACTCGCATGTTTCCCTGACCAATCCGCCAGAAGGCGCTCGCCGCCAGCGATAGCAG
TTCTTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGACCGTCCGCCGTAGGCATGCTTTTGAGCGTTTGA
CCAAGCAGTTCCAGGCGGTCCCACAGCTCGGTACCTGCTCTACGGCATCTCGATCCAGCATATCTCCTC
GTTTCGCGGGTTGGGGCGGCTTTCGCTGTACGGCAGTAGTCCGTGCTCGTCCAGACGGGCCAGGGTCATG
TCTTTCCACGGGCGCAGGGTCTCTCGTCAGCGTAGTCTGGGTACGGTGAAGGGTGCCTCCGGGCTGCG
CGCTGGCCAGGGTGCCTTGAGGCTGGTCTGCTGGTGTGAAGCGCTGCCGGTCTTCGCCCTGCGCGTC
GGCCAGGTAGCATTTGACCATGGTGTTCATAGTCCAGCCCCCTCCGCCGCTGGCCCTTGGCGCGCAGCTTG
CCCTTGAGAGAGGCGCCGACAGGGGCGAGTGCAGACTTTTGAGGGCGTAGAGCTTGGGCGCGAGAAATA
CCGATTCCGGGGAGTAGGCATCCGCGCCGAGGCCCGCAGACGGTCTCGCATTCCACGAGCCAGGTGAG
CTCTGGCCGTTTCGGGGTCAAAAAACAGGTTTCCCCCATGCTTTTTGATGCGTTTCTTACCTCTGGTTTCC
ATGAGCCGGTGTCCACGCTCGGTGACGAAAAGGCTGTCCGTGTCCCGTATACAGACTTGAGAGGCCTGT
CCTCGAGCGGTGTTCCGCGGTCTCTCTCGTATAGAACTCGGACCACTCTGAGACAAAGGCTCGCGTCCA
GGCCAGCACGAAGGAGGCTAAGTGGGAGGGGTAGCGGTGCTTGTCCACTAGGGGGTCCACTCGCTCCAGG
GTGTGAAGACACATGTGCCCCCTCTTCGGCATCAAGGAAGGTGATTGGTTTGTAGGTGTAGGCCACGTGAC
CGGGTGTCTCTGAAGGGGGGCTATAAAAGGGGTGGGGGCGCGTTCGTCTCTACTCTCTTCCGCATCGCT

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

GTCTGCGAGGGCCAGCTGTTGGGGTGAGTACTCCCTCTGAAAAGCGGGCATGACTTCTGCGCTAAGATTG
TCAGTTTCCAAAAACGAGGAGGATTTGATATTACCTGGCCCGCGGTGATGCCTTTGAGGGTGCCGCAT
CCATCTGGTCAGAAAAGACAATCTTTTTGTTGTCAAGCTTGGTGGCAAACGACCCGTAGAGGGCGTTGGA
CAGCAACTTGGCGATGGAGCGCAGGGTTTGGTTTTTGTGCGCATCGGCGCGCTCCTTGGCCCGCATGTTT
AGCTGCACGTATTTCGCGCGCAACGCACCGCCATTTCGGGAAAGACGGTGGTGCCTCGTTCGGGCACCAAGT
GCACGCGCCAACCGCGGTTGTGACAGGTGACAAGGTCAACGCTGGTGGCTACCTCTCCGCGTAGGCGCTC
GTTGGTCCAGCAGAGGCGGCCGCCCTTCGCGGAGCAGAATGGCGGTAGGGGGTCTAGCTGCGTCTCGTCC
GGGGGGTCTGCGCTCCACGGTAAAGACCCCGGGCAGCAGGCGCGCTCGAAGTAGTCTATCTTGATCTCCTT
GCAAGTCTAGCGCCTGCTGCCATGCGCGGGCGGCAAGCGCGCGCTCGTATGGGTTGAGTGGGGGACCCCA
TGGCATGGGGTGGGTGAGCGCGGAGGCGTACATGCCGCAAATGTCGTAAACGTAGAGGGGCTCTCTGAGT
ATTCCAAGATATGTAGGGTAGCATCTTCCACCGCGGATGCTGGCGCGCACGTAATCGTATAGTTTCGTGCG
AGGGAGCGAGGAGGTTCGGGACCGAGGTTGCTACGGGCGGGCTGCTCTGCTCGGAAGACTATCTGCCTGAA
GATGGCATGTGAGTTGGATGATATGTTTGGACGCTGGAAGACGTTGAAGCTGGCGTCTGTGAGACCTACC
GCGTCACGCACGAAGGAGGCGTAGGAGTTCGCGCAGCTTGTGACCAGCTCGGCGGTGACCTGCACGTCTA
GGGCGCAGTAGTCCAGGGTTTCCCTTGATGATGTCTACTTATCCTGTCCCTTTTTTTTCCACAGCTCGCG
GTTGAGGACAAACTCTTCGCGGTCTTTCCAGTACTCTTGGATCGGAAACCCGTCCGACCTCCGAACGGTAA
GAGCCTAGCATGTAGAACTGGTTGACGGCCTGGTAGGCGCAGCATCCCTTTTCTACGGGTAGCGCGTATG
CCTGCGCGGCCCTTCCGAGCGAGGTGTGGGTGAGCGCAAAGGTGTCCCTGACCATGACTTTGAGGTACTG
GTATTTGAAGTCAGTGTGCTCGCATCCGCCCTGCTCCAGAGCAAAAAGTCCGTGCGCTTTTTTGAACGC
GGATTTGGCAGGGCGAAGGTGACATCGTTGAAGAGTATCTTTCCGCGCGAGGCATAAAGTTGCGTGTGA
TGCGGAAGGGTCCCGGCACCTCGGAACGGTTGTTAATTACCTGGGCGCGAGCACGATCTCGTCAAAGCC
GTTGATGTTGTGGCCCAATGTAAAGTTCCAAGAAGCGCGGGATGCCCTTGATGGAAGGCAATTTTTTA
AGTTCCTCGTAGGTGAGCTCTTCAGGGGAGCTGAGCCCGTGTCTGAAAGGGCCCAGTCTGCAAGATGAG
GGTTGGAAGCGACGAATGAGCTCCACAGGTACGGGCCATTAGCATTTGCAGGTGGTTCGCGAAAGGTCCCT
AAACTGGCGACCTATGGCCATTTTTTCTGGGGTGATGTCAGTAGAAGGTAAGCGGGTCTGTTCCAGCGCG
TCCCACCAAGGTTTCGCGGCTAGGTCTCGCGCGGCAGTCACTAGAGGCTCATCTCCGCGCAACTTCATGA
CCAGCATGAAGGGCACGAGCTGCTTCCCAAAGGCCCCCATCCAAGTATAGGTCTCTACATCGTAGGTGAC
AAAGAGACGCTCGGTGCGAGGATGCGAGCCGATCGGGAAGAACTGGATCTCCCGCCACCAATTGGAGGAG
TGGCTATTGATGTGGTGAAGTAGAAGTCCCTGCGACGGGCCGAACACTCGTGCTGGCTTTTGTAAAAAC
GTGCGCAGTACTGGCAGCGGTGCACGGGCTGTACATCCTGCACGAGGTTGACCTGACGACCGCGCACAAG
GAAGCAGAGTGGGAATTTGAGCCCCCTCGCCTGGCGGGTTTGGCTGGTGGTCTTCTACTTCGGCTGCTTGT
CCTTGACCGTCTGGCTGCTCGAGGGGAGTTACGGTGGATCGGACCACCACGCCGCGCGAGCCCCAAAGTCC
AGATGTCCGCGCGCGCGGCTCGGAGCTTGATGACAACATCGCGCAGATGGGAGCTGTCCATGGTCTGGAG
CTCCCGCGGCGTCAGGTTCAGGCGGGAGCTCCTGAGGTTTACCTCGCATAGACGGGTCAGGGCGCGGGCT
AGATCTCAGGTGATACCTAATTTCCAGGGGCTGGTTGGTGGCGCGTCGATGGCTTGCAAGAGGCGCGCATC
CCCGCGGCGCGACTACGGTACCGCGCGCGGGCGGTGGGCCGCGGGGGTGTCTTGGATGATGCATCTAA
AAGCGGTGACGCGGGCGAGCCCCCGAGGTAGGGGGGGCTCCGACCCGCGGGAGAGGGGGCAGGGGCA
CGTCGGCGCCGCGCGCGGGCAGGAGCTGGTGTGCTGCGCGCTAGGTTGCTGGCGAACGCGACGACGCGCG
GTTGATCTCCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGCCCGGTGAGCTTGAGCCTGAAAGAGAGT
TCGACAGAATCAATTTTCGGTGTGCTTGACGGCGGCCTGGCGCAAAATCTCCTGCACGTCTCCTGAGTTGT
CTTGATAGGCGATCTCGGCCATGAACGTCTGATCTCTTCTCCTGGAGATCTCCGCGTCCGGCTCGCTC
CACGGTGGCGGCGAGGTTCGTTGAAATGCGGGCCATGAGCTGCGAGAAGGCGTTGAGGCCTCCCTCGTTC
CAGACGCGGCTGTAGACCACGCCCCCTTCGGCATCGCGGCGCGCATGACCACCTGCGCGAGATTGAGCT
CCACGTGCCGGGCGAAGACGCGGTAGTTTCGACAGGCGCTGAAAGAGGTAGTTGAGGGTGGTGGCGGTGTG
TTCTGCCACGAAGAAGTACATAAACCAGCGTCGCAACGTGGATTTCGTTGATATCCCCCAAGGCCTCAAGG
CGCTCCATGGCCTCGTAGAAGTCCACGGCGAAGTTGAAAACTGGGAGTTGCGCGCCGACACGGTTAACT
CCTCCTCCAGAAGACGGATGAGCTCGGCGACAGTGTGCGCACCTCGCGCTCAAAGGCTACAGGGGCCCTC
TTCTTCTTCTCAATCTCCTCTTCCATAAGGGCCTCCCTTCTTCTTCTTCTGGCGGGCGGTGGGGGAGGG
GGGACACGGCGGCGACGACGGCGCACCGGGAGGCGGTGACAAAGCGCTCGATCATCTCCCCGCGCGGAC
GGCGCATGGTCTCGGTGACGGCGCGGCCGTTCTCGCGGGGGCGCAGTTGGAAGACGCCGCCCGTCATGTC
CCGGTTATGGGTTGGCGGGGGGCTGCCATGCGGCAGGGATACGGCGCTAACGATGCATCTCAACAATTGT
TGTGTAGTACTCCGCCGCCGAGGGACCTGAGCGAGTCCGATCGACCGGATCGGAAAACCTCTCGAGAA
AGGCGTCTAACCAGTCACAGTCGCAAGGTAGGCTGAGCACCGTGGCGGGCGGCAGCGGGCGCGGTCTGGG
GTTGTTTCTGGCGGAGGTGCTGCTGATGATGTAATTAAAGTAGGCGGTCTTGAGACGGCGGATGGTCGAC

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

AGAAGCACCATGTCCTTGGGTCCGGCCTGCTGAATGCGCAGGCGGTTCGGCCATGCCCCAGGCTTCGTTTT
GACATCGGCGCAGGTCTTTGTAGTAGTCTTGTCATGAGCCTTTCTACCGGCACTTCTTCTCTCCTTCCTC
TTGTCTGTCATCTCTTGTCATCTATCGCTGCGGCGGCGGCGGAGTTTGGCCGTAGGTGGCGCCCTCTTCCT
CCCATGCGTGTGACCCCGAAGCCCTCATCGGCTGAAGCAGGGCTAGGTTCGGCGACAACGCGCTCGGCTA
ATATGGCCTGCTGCACCTGCGTGAGGGTAGACTGGAAGTCATCCATGTCCACAAAGCGGTGGTATGCGCC
CGTGTGATGGTGTAAGTGCAAGTTGGCCATAACGGACAGTTAACGGTCTGGTGACCCGGCTGCGAGAGC
TCGGTGTAACCTGAGACGCGAGTAAGCCCTCGAGTCAAATACGTAGTTCGTTGCAAGTCCGCACCAGGTACT
GGTATCCCAACAAAAAGTGCGGCGGCGGCTGGCGGTAGAGGGGCCAGCGTAGGGTGGCCGGGGCTCCGGG
GGCGAGATCTTCCAACATAAGGCGATGATATCCGTAGATGTACCTGGACATCCAGGTGATGCCGCGCGCG
GTGGTGAGAGCGCGCGGAAAGTCGCGGACGCGGTTCCAGATGTTGCGCAGCGGCAAAAAAGTGCTCCATGG
TCGGGACGCTCTGGCCGGTCAGGCGCGCGCAATCGTTGACGCTCTAGACCGTGCAAAAGGAGAGCCTGTA
AGCGGGCACTCTTCCGTGGTCTGGTGGATAAATTTCGAAGGGTATCATGGCGGACGACCGGGGTTTCGAGC
CCCGTATCCGGCCGTCCGCCGTGATCCATGCGGTTACCGCCCGGTGTGCAACCCAGGTGTGCGACGTCA
GACAACGGGGGAGTGCTCCTTTTGGCTTCCTTCCAGGCGCGGCGGCTGCTGCGCTAGCTTTTGGCCAC
TGGCCGCGCGCAGCGTAAGCGGTTAGGCTGGAAGCGAAAGCATTAAGTGGCTCGCTCCCTGTAGCCGGA
GGGTTATTTTCCAAGGGTTGAGTCGCGGGACCCCGGTTTCGAGTCTCGGACCGGCCGGACTGCGGCGAAC
GGGGGTTTGCTTCCCGTCATGCAAGACCCCGCTTGCAAATTCTCCGAAACAGGGACGAGCCCTTTT
TTGCTTTTCCAGATGCATCCGCTGCTGCGGCGAGATGCGCCCCCTCCTCAGCAGCGGCAAGAGCAAGAG
CAGCGGCAGACATGCAGGGCACCCCTCCCTCCTCCTACCGCGTCAGGAGGGGCGACATCCGCGGTTGACG
CGGCAGCAGATGGTGATTACGAACCCCGCGGCGCGGGCCCGGCACTACCTGGACTTGAGAGAGGGCGA
GGGCTTGCGCGGCTAGGAGCGCCCTCTCCTGAGCGGTACCCAAGGGTGCAGCTGAAGCGTGATACGCGT
GAGGCGTACGTGCCGCGCAGAACCTGTTTTCGCGACCGCGAGGGAGAGGAGCCGAGGAGATGCGGGATC
GAAAGTTCCACGCAGGGCGCGAGCTGCGGCATGGCCTGAATCGCGAGCGGTTGCTGCGCGAGGAGGACTT
TGAGCCCGACGCGCGAACCAGGGATTAGTCCCGCGCGCGCACACGTGGCGGCCGCGGACCTGGTAACCGCA
TACGAGCAGACGGTGAACCAGGAGATTAACTTTCAAAAAAGCTTTAAACAACACGTGCGTACGCTTGTTGG
CGCGCAGGAGGTTGGCTATAGGACTGATGCATCTGTGGGACTTTGTAAGCGCGCTGGAGCAAAACCCAAA
TAGCAAGCCGCTCATGGCGCAGCTGTTCCTTATAGTGCAGCACAGCAGGGACAACGAGGCATTGAGGGAT
GCGCTGCTAAACATAGTAGAGCCGAGGGCGGCTGGCTGCTCGATTTGATAAACATCCTGCAGAGCATAG
TGGTGCAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTGGCGGCCATCACTATTCCATGCTTAGCCTGGG
CAAGTTTACGCCCCAAGATATACCATAACCCCTTACGTTCCCATAGACAAGGAGGTAAAGATCGAGGGG
TTCTACATGCGCATGGCGCTGAAGGTGCTTACCTTGAGCGACGACCTGGGCGTTTATCGCAACGAGCGCA
TCCACAAGGCCGTGAGCGTGAGCCGGCGGCGCGAGCTCAGCGACCGCGAGCTGATGCACAGCCTGCAAAG
GGCCCTGGCTGGCACGGGCGAGCGCGGATAGAGAGGCCGAGTCTACTTTGACGCGGGCGCTGACCTGCGC
TGGGCCCCAAGCCGACGCGCCCTGGAGGACGTGGGGCCGACCTGGGCTGGCGGTGGCACCCGCGCGCG
CTGGCAACCTCGGCGGCTGGAGGAATATGACGAGGACGATGAGTACGAGCCAGAGGACGGCAGTACTA
AGCGGTGATGTTTCTGATCAGATGATGCAAGACGCAACGAGCCGCGGTGCGGGCGGCTGCGGGCGGAGCC
AGCCGTCCGGCCTTAACCTCCACGGACGACTGGCGCCAGGTTCATGGACCGCATCATGTGCTGACTGCGCG
CAATCCTGACGCGTTCCGGCAGCAGCCGAGGCCAACCGGCTCTCCGCAATTCTGGAAGCGGTGGTCCCG
GCGCGCGCAAAACCCACGCACGAGAAGGTGCTGGCGATCGTAAACGCGCTGGCCGAAACAGGGCCATCC
GGCCCGACGAGGCCGCGCTGGTCTACGACGCGCTGCTTCAGCGCGTGGCTCGTTACAACAGCGGCAACGT
GCAGACCAACCTGGACCGGCTGGTGGGGGATGTGCGCGAGGCCGTGGCGCAGCGTGAGCGCGCGCAGCAG
CAGGGCAACCTGGGCTCCATGGTTGCACTAAACGCCTTCTGAGTACACAGCCCGCAACGTGCCGCGGG
GACAGGAGGACTACACCACTTTGTGAGCGCACTGCGGCTAATGGTGACTGAGACACCGCAAAAGTGAGGT
GTACCAGTCTGGGCCAGACTATTTTTCAGACCAAGTAGACAAGGCCTGCAGACCGTAACCTGAGCCAG
GCTTTTCAAAAACTTGACAGGGGCTGTGGGGGTGCGGGCTCCACAGGCGACCGCGCGACCGTGTCTAGCT
TGCTGACGCCCAACTCGCGCCTGTTGCTGCTGCTAATAGCGCCCTTACGGACAGTGGCAGCGTGTCCCCG
GGACACATACCTAGGTCACTTGTGACACTGTACCGCGAGGCCATAGGTGAGGCGCATGTGGACGAGCAT
ACTTTCCAGGAGATTACAAGTGTGAGCCGCGCGCTGGGGCAGGAGGACACGGGCGACCTGGAGGCAACCC
TAAACTACCTGCTGACCAACCGGCGGCGAGAAGATCCCTCGTTGCACAGTTTAAACAGCGAGGAGGAGCG
CATTTTGGCGTACGTGCAGCAGAGCGTGAGCCTTAACCTGATGCGCGACGGGGTAACGCCCAGCGTGCGG
CTGGACATGACCGCGCGCAACATGGAACCGGGCATGTATGCCTCAAACCGGCCGTTTATCAACCGCCTAA
TGGACTACTTGATCGCGCGGCGCGGTGAACCCGAGTATTTACCAATGCCATCTTGAACCCGCACTG
GCTACCGCCCCCTGGTTTCTACACCGGGGATTCGAGGTGCCCGAGGGTAACGATGGATTCTCTGGGAC
GACATAGACGACAGCGTGTTTTTCCCGCAACCGCAGACCCTGCTAGAGTTGCAACAGCGCGAGCGAGCAG

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

AGGCGGCGCTGCGAAAGGAAAGCTTCCGCGAGGCCAAGCAGCTTGTCCGATCTAGGCGCTGCGGCCCCGCG
GTCAGATGCTAGTAGCCCATTTCCAAGCTTGATAGGGTCTCTTACCAGCACTCGCACCACCCGCCCCGCGC
CTGCTGGGCGAGGAGGAGTACCTAAACAACTCGCTGCTGCAGCCGCGAGCGCGAAAAAACCTGCCTCCGG
CATTTCCCAACAACGGGATAGAGAGCCTAGTGGACAAGATGAGTAGATGGAAGACGTACGCGCAGGAGCA
CAGGGACGTGCCAGGCCCCGCGCCCCGCCACCCGTCGTCAAAGGCACGACCGTCAGCGGGGTCTGGTGTGG
GAGGACGATGACTCGGCAGACGACAGCAGCGTCTTGGATTGGGAGGGAGTGGCAACCCGTTTGGCGACC
TTCGCCCCAGGCTGGGGAGAATGTTTTAAAAAAGCATGATGCAAAATAAAAACTCACCAAGGC
CATGGCACCCGAGCGTTGGTTTTCTGTATTCCCTTAGTATGCGGCGCGCGCGATGTATGAGGAAGGT
CTCTCCCTCCTACGAGAGTGTGGTGAGCGCGCGCCAGTGGCGGCGCGCTGGGTTCTCCCTTCGATGC
TCCCCTGGACCCGCGTTTGTGCCTCCGCGGTACCTGCGGCCTACCGGGGGAGAAACAGCATCCGTTAC
TCTGAGTTGGCACCCCTATTTCGACACCACCCGTGTGTACCTGGTGGACAACAAGTCAACGGATGTGGCAT
CCCTGAACCTACCAGAACGACCACAGCAACTTTCTGACCACGGTCATTCAAAACAATGACTACAGCCCGGG
GGAGGCAAGCACACAGACCATCAATCTTGACGACCGGTGCGACTGGGGCGGCGACCTGAAAACCATCCTG
CATAACAACATGCCAAATGTGAACGAGTTCATGTTTACCAATAAGTTTAAGGCGCGGGTGATGGTGTGCG
GCTTGCCTACTAAGGACAATCAGGTGGAGCTGAAATACGAGTGGGTGGAGTTCACGCTGCCCCGAGGGCAA
CTACTCCGAGACCATGACCATAGACCTTATGAACAACGCGATCGTGGAGCACTACTTGAAAGTGGGCAGA
CAGAACGGGGTTCTGGAAAGCGACATCGGGGTAAAGTTTGACACCCGCAACTTCAGACTGGGGTTTGACC
CCGTCACTGGTCTTGTTCATGCCTGGGGTATATACAAACGAAGCCTTCCATCCAGACATCATTTTGTGCGC
AGGATGCGGGGTGGACTTCACCCACAGCCGCCGTGAGCAACTTGTGGGCATCCGCAAGCGGCAACCCCTTC
CAGGAGGGCTTTAGGATCACCTACGATGATCTGGAGGGTGGTAACATTCCCGCACTGTTGGATGTGGACG
CCTACCAGGCGAGCTTGAAAGATGACACCGAACAGGGCGGGGTGGCGCAGGCGGCAGCAACAGCAGTG
CAGCGGCGCGGAAGAGAATCCAACGCGGCAGCCGCGGCAATGCAGCCGGTGGAGGACATGAACGATCAT
GCCATTGCGGCGGACACCTTTGCCACACGGGTGAGGAGAAGCGCGCTGAGGCCGAAGCAGCGGCCGAAG
CTGCCGCCCCGCTGCGCAACCCGAGGTGAGAAAGCCTCAGAAGAAACCGGTGATCAAACCCCTGACAGA
GGACAGCAAGAAACGCAGTTACAACCTAATAAGCAATGACAGCACCTTCACCCAGTACCGCAGCTGGTAC
CTTGACATAAATAACGCGACCCCTCAGACCGGAATCCGCTCATGGACCCTGCTTTGCACTCCTGACGTAA
CCTGCGGCTCGGAGCAGGTCTACTGGTCTGTTGCCAGACATGATGCAAGACCCCGTGACCTTCCGCTCCAC
GCGCCAGATCAGCAACTTTCCGGTGGTGGGCGCCGAGCTGTTGCCCGTGCACTCCAAGAGCTTCTACAAC
GACCAGGCGCTACTCCCAACTCATCCGCCAGTTTACCTCTCTGACCCACGTGTTCAATCGCTTTCCCG
AGAACCAGATTTTGGCGCGCCCGCCAGCCCCACCATCACACCGTCAGTGAACCGTTCTGCTCTCAC
AGATCACGGGACGCTACCGCTGCGCAACAGCATCGGAGGAGTCCAGCGAGTGACCATTACTGACGCCAGA
CGCCGCACCTGCCCCCTACGTTTACAAGGCCCTGGGCATAGTCTCGCCGCGCGTCTATCGAGCCGCACTT
TTTGAGCAAGCATGTCCATCCTTATATCGCCAGCAATAACACAGGCTGGGGCCTGCGCTTCCCAAGCAA
GATGTTTGGCGGGGCCAAGAAGCGCTCCGACCAACACCCAGTGCAGCGTGCGCGGGCACTACCGCGCGCCC
TGGGGCGCGCACAAACGCGCGCCGCACTGGGCGGCGTCCAGCTGATGACGCCATCGACGCGGTGGTGAGG
AGGCGCGCAACTACGACCGCCACGCGCCAGTCCACAGTGGACGCGGCCATTTCAGACCGTGGTGCG
CGGAGCCCGCGCTATGCTAAAATGAAGAGACGGCGGAGGCGGTAGCACGTGCGCACCGCGCGGCCA
GGCACTGCGCGCCAACGCGCGGCGGCGGCCCTGCTTAACCGCGCACGTGCGACCGCGGCGGCGGCCA
TGCGGGCCGCTCGAAGGCTGGCCGCGGGTATTGTCACTGTGCCCCCAGGTCCAGGCGACGAGCGGCCG
CGCAGCAGCCGCGGCCATTAGTGCTATGACTCAGGGTTCGAGGGGCAACGTGTATTGGGTGCGCGACTCG
GTTAGCGGCCTGCGCGTGCCCGTGCGCACCCGCCCCCGCGCAACTAGATTGCAAGAAAAAACTACTTAG
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AGAGATGCTCCAGGTCATCGCGCCGAGATCTATGGCCCCCGAAGAAGGAAGAGCAGGATTACAAGCCC
CGAAAGCTAAAGCGGGTCAAAAAGAAAAAGATGATGATGATGAACCTTGACGACGAGGTGGAACCTGC
TGACGCTACCGCGCCAGGCGACGGGTACAGTGGAAAGGTGACGCGTAAACGTGTTTTGCGACCCCG
CACCACCGTAGTCTTTACGCGCGGTGAGCGCTCCACCCGCACCTACAAGCGCGTGTATGATGAGGTGTAC
GGCGACGAGGACCTGCTTGAGCAGGCCAACGAGCGCTCGGGGAGTTTGCTACGGAAAGCGGCATAAGG
ACATGCTGGCGTTGCCGCTGGACGAGGGCAACCCAACACCTAGCCTAAAGCCCGTAACACTGCAGCAGGT
GCTGCCCCGCGCTTGACCGTCCGAAGAAAAGCGCGGCCTAAAGCGCGAGTCTGGTGACTTGGCACCCACC
GTGCAGCTGATGGTACCCAAGCGCCAGCGACTGGAAGATGTCTTGAAAAAATGACCGTGGAACCTGGGC
TGGAGCCCCGAGGTCCGCGTGCGGCAATCAAGCAGGTGGCGCGGGGACTGGGCGTGACAGCCGTGGACGT
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GTTGCTCAGCGGTGGCGGATGCCGCGGTGACGCGGCTCGCTGCGGCGCGCTCCAAGACCTCTACGGAGG
TGCAACCGGACCCGTGGATGTTTCGCGTTTTAGCCCCCGCGCGCGGTTTCGAGGAAGTACGGCGC

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

CGCCAGCGCGCTACTGCCGAATATGCCCTACATCCTTCCATTGCGCCTACCCCGGCTATCGTGCTAC
ACCTACCGCCCCAGAAGACGAGCAACTACCCGACGCCGAACCACCACTGGAACCCGCCGCCCGCTCGCC
GTCGCCAGCCCGTGCTGGCCCCGATTTCCTGTCGCGAGGGTGGCTCGCGAAGGAGGCAGGACCCTGGTGCT
GCCAACAGCGCGCTACCACCCAGCATCGTTTAAAAGCCGGTCTTTGTGGTTCTTGCAGATATGGCCCTC
ACCTGCCGCTCCGTTTCCCGGTGCCGGGATTCCGAGGAAGAATGCACCGTAGGAGGGGCATGGCCGGCC
ACGGCCTGACGGGCGGCATGCGTCGTGCGCACCACCGCGCGCGCGCTCGCACCGTCGCATGCGCGG
CGGTATCCTGCCCCCTCCTTATTCACCTGATCGCCGCGCGCATTTGGCGCGTGCCCGGAATTGCATCCGTG
GCCTTGACAGCGCAGAGACACTGATTAACCAAGTTGTCATGTGGAATAATCAAAATAAAAGTCTGGAC
TCTCAGCTCGCTTGGTCTGTAACTATTTTGTAGAATGGAAGACATCAACTTTGCGTCTCTGGCCCCGC
GACACGGCTCGCGCCCGTTTCATGGGAACTGGCAAGATATCGGCACCAGCAATATGAGCGGTGGCGCCTT
CAGCTGGGGCTCGCTGTGGAGCGGCATTAAAAATTTTCGGTTCACCGTTAAGAACTATGGCAGCAAGGCC
TGGAACAGCAGCACAGGCCAGATGCTGAGGGATAAGTTGAAAGAGCAAAATTTCCAACAAAAGGTGGTAG
ATGGCCTGGCCTCTGGCATTAGCGGGTGGTGGACCTGGCCAACCAGGCAGTGCAAAATAAGATTAACAG
TAAGCTTGATCCCCGCCCTCCCGTAGAGGAGCCTCCACCGGCCGTGGAGACAGTGTCTCCAGAGGGGCGT
GGCGAAAAGCGTCCCGCCCCGACAGGGAAGAACTCTGGTGACGCAATAGACGAGCCTCCCTCGTACG
AGGAGGCACTAAAGCAAGGCCTGCCACCACCCGTCCCATCGCGCCCATGGCTACCGGAGTGCTGGGCCA
GCACACACCCGTAAACGCTGGACCTGCCTCCCCCGCCGACACCCAGCAGAAACCTGTGCTGCCAGGCCCG
ACCGCGTGTGTGTAACCCGTCTAGCCGCGCGTCCCTGCGCCGCGCCGCGCAGCGGTCCGCGATCGTTGC
GGCCCGTAGCCAGTGGCAACTGGCAAGCACACTGAACAGCATCGTGGGTCTGGGGGTGCAATCCCTGAA
GCGCCGACGATGCTTCTGAATAGCTAACGTGTCTGTATGTGTGTATGCGTCCATGTGCGCGCCAGA
GGAGCTGTGAGCCGCCGCGCGCCCGCTTTCCAAGATGGCTACCCCTTCGATGATGCCGAGTGGTCTTA
CATGCACATCTCGGGCCAGGACGCTTCGGAGTACCTGAGCCCCGGGCTGGTGCAGTTTGGCCGCGCCACC
GAGACGTACTTCAGCCTGAATAACAAGTTTAGAAACCCACGGTGGCGCCTACGCACGACGTGACCACAG
ACCGGTCCCAGCGTTTGACGCTGCGGTTTCATCCCTGTGGACCGTGAGGATACTGCGTACTCGTACAAGGC
GCGGTTACCCCTAGCTGTGGGTGATAACCGTGTGCTGGACATGGCTTCCACGTACTTTGACATCCGCGGC
GTGCTGGACAGGGGCCCTACTTTTAAGCCCTACTCTGGCACTGCCTACAACGCCCTGGCTCCCAAGGGTG
CCCCAAATCCTTGCGAATGGGATGAAGCTGCTACTGCTCTTGAATAAACCTAGAAGAAGAGGACGATGA
CAACGAAGACGAAGTAGACGAGCAAGCTGAGCAGCAAAAACTCACGTATTTGGGCAGGCGCCTTATTCT
GGTATAAATATTACAAAGGAGGGTATTCAAATAGGTGTGCAAGGTCAAACACCTAAATATGCCGATAAAA
CATTTCAACCTGAACCTCAAATAGGAGAATCTCAGTGGTACGAACTGAAATTAATCATGCAGCTGGGAG
AGTCCTTAAAAAGACTACCCCAATGAAACCATGTTACGGTTCATATGCAAAACCCACAAATGAAAATGGA
GGGCAAGGCATTCTTGTAAGCAACAAAAATGGAAGCTAGAAAGTCAAGTGGAAATGCAATTTTTCTCAA
CTACTGAGGCGACCGCAGGCAATGGTGATAACTTGACTCCTAAAGTGGTATTGTACAGTGAAGATGTAGA
TATAGAAACCCAGACACTCATATTTCTTACATGCCCACTATTAAAGGAAGGTAACCTACGAGAATAATG
GGCAACAATCTATGCCCAACAGGCTAATTACATTTGCTTTTAGGGACAATTTTATTGGTCTAATGATT
ACAACAGCACGGGTAATATGGGTGTTCTGGCGGGCCAAGCATCGCAGTTGAATGCTGTTGTAGATTTGCA
AGACAGAAACACAGAGCTTTCATACCAGCTTTTGCTTGATTCCATTGGTGATAGAACCAGGTACTTTTCT
ATGTGGAATCAGGCTGTTGACAGCTATGATCCAGATGTTAGAATTATTGAAAATCATGGAACCTGAAGATG
AACTTCCAAATTACTGCTTTCCACTGGGAGGTGTGATTAATACAGAGACTTTACCAAGGTAAAACCTAA
AACAGGTGAGGAAAATGGATGGGAAAAAGATGCTACAGAATTTTCAGATAAAAATGAAATAAGAGTTGGA
AATAATTTTGCCATGGAAATCAATCTAAATGCCAACCTGTGGAGAAATTTCTGTACTCCAACATAGCGC
TGTATTTGCCCCACAAGCTAAAGTACAGTCCCTTCCAACGTAAAAATTTCTGATAACCCAAACACCTACGA
CTACATGAACAAGCGAGTGGTGGCTCCCGGGTTAGTGGACTGCTACATTAACCTTGGAGCACGCTGGTCC
CTTGACTATATGGACAACGTCAACCCATTTAACCACCACCGCAATGCTGGCCTGCGCTACCGCTCAATGT
TGCTGGGCAATGGTCGCTATGTGCCCTTCCACATCCAGGTGCCTCAGAAGTTCTTTGCCATTAAAAACCT
CCTTCTCCTGCCGGGCTCATACACCTACGAGTGGAACCTCAGGAAGGATGTTAACATGGTTCCTGCAGAGC
TCCCTAGGAAATGACCTAAGGGTTGACGGAGCCAGCATTAAGTTTGATAGCATTTGCCTTTACGCCACCT
TCTTCCCCATGGCCCAACACCGCTCCACGCTTGAGGCCATGCTTAGAAACGACACCAACGACCAGTC
CTTTAACGACTATCTCTCCGCCGCCAACATGCTCTACCCTATACCCGCCAACGCTACCAACGTGCCATA
TCCATCCCCTCCCGCAACTGGGCGGCTTTCCGCGGCTGGGCCTTACGCGCCTTAAGACTAAGGAAACCC
CATCACTGGGCTCGGGCTACGACCCTTATTACACCTACTCTGGCTCTATACCCTACCTAGATGGAACCTT
TTACCTCAACCAACCTTTAAGAAGGTGGCCATTACCTTTGACTCTTCTGTGCTGAGCTGGCCAGGAGTAC
CGCTGCTTACCCCCAACGAGTTTGAAATTAAGCCTTGTGACGGGGAGGGTTACAACGTTGCCAGT
GTAACATGACCAAGACTGGTTCTGGTACAAATGCTAGCTAACTACAACATTGGCTACCAGGGCTTCTA

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

TATCCCAGAGAGCTACAAGGACCGCATGTACTCCTTCTTTAGAAACTTCCAGCCCATGAGCCGTCAGGTG
GTGGATGATACTAAATACAAGGACTACCAACAGGTGGGCATCCTACACCAACACAACAACTCTGGATTTG
TTGGCTACCTTGCCCCACCATTGCGCGAAGGACAGGCCCTACCCTGCTAACTTCCCCTATCCGCTTATAGG
CAAGACCGCAGTTGACAGCATTACCCAGAAAAAGTTTCTTTGCGATCGCACCCCTTTGGCGCATCCCATTC
TCCAGTAACTTTATGTCCATGGGCGCACTCACAGACCTGGGCCAAAACCTTCTCTACGCCAACTCCGCCC
ACGCGCTAGACATGACTTTTGAGGTGGATCCCATGGACGAGCCACCCCTTCTTTATGTTTTGTTTGAAGT
CTTTGACGTGGTCCGTGTGCACCGGCCGACCGCGCGTCATCGAAACCGTGTACCTGCGCACGCCCTTC
TCGGCCGGCAACGCCACAACATAAAGAAGCAAGCAACATCAACAACAGCTGCCGCCATGGGCTCCAGTGA
GCAGGAACGTAAAGCCATTGTCAAAGATCTTGGTTGTGGGCCATATTTTTTGGGCACCTATGACAAGCGC
TTTTCCAGGCTTTGTTTTCTCCACACAAGCTCGCCTGCGCCATAGTCAATACGGCCGGTTCGCGAGACTGGGG
GCGTACACTGGATGGCCTTTGCCTGGAACCCGCACTCAAAAACATGCTACCTCTTTGAGCCCTTTGGCTT
TTCTGACCAGCGACTCAAGCAGGTTTACCAGTTTGAGTACGAGTCACTCCTGCGCCGTAGCGCCATTGCT
TCTTCCCCGACCGCTGTATAACGCTGGAAAAGTCCACCCAAAGCGTACAGGGGCCAACTCGGCCCGCT
GTGGACTATTCTGCTGCATGTTTCTCCACGCCCTTGCCAACTGGCCCCAAACTCCCATGGATCACAACCC
CACCATGAACCTTATTACCGGGGTACCCAACTCCATGCTCAACAGTCCCCAGGTACAGCCCACCCCTGCGT
CGCAACCAGGAACAGCTCTACAGCTTCTTGAGCGCCACTCGCCCTACTTCCGCAGCCACAGTGCAGCAGA
TTAGGAGCGCCACTTCTTTTGTCACTTGAAAAACATGTAAAAATAATGTACTAGAGACACTTTCAATAA
AGGCAAATGCTTTTATTTGTACACTCTCGGGTGATTATTTACCCCCACCCTTGCCGTCTGCGCCGTTTAA
AAATCAAAGGGGTTCTGCGCGCATCGCTATGCGCCACTGGCAGGGACACGTTGCGATACTGGTGTTTAG
TGCTCCACTTAAACTCAGGCACAACCATCCGCGGCAGCTCGGTGAAGTTTTCACTCCACAGGCTGCGCAC
CATACCAACGCGTTTAGCAGGTGCGGCGCCGATATCTTGAAGTGCAGTTGGGGCCTCCGCCCTGCGCG
CGCGAGTTGCGATACACAGGGTTGCAGCACTGGAACACTATCAGCGCCGGGTGGTGCACGCTGGCCAGCA
CGCTCTTGTGCGAGATCAGATCCGCGTCCAGGTCTCCGCGTTGCTCAGGGCGAACGGAGTCAACTTTGG
TAGCTGCCTTCCCAAAAAGGGCGCGTGCCAGGCTTTGAGTTGCACTCGCACCGTAGTGGCATCAAAAGG
TGACCGTGGCCGGTCTGGGCGTTAGGATACAGCGCTGCATAAAAGCCTTGATCTGCTTAAAGCCACCT
GAGCCTTTGCGCTTCAGAGAAGAACATGCCGCAAGACTTGCCCGAAAAGTGAATGGCCGACAGCCGC
GTCGTGCACGCAGCACCTTGCCTCGGTGTTGGAGATCTGCACCACATTTCCGCCCCACCGGTTCTTCACG
ATCTTGGCCTTGCTAGACTGCTCCTTCAGCGCGCGTGCCCGTTTTTCGCTCGTCACATCCATTTCAATCA
CGTGCTCCTTATTTATCATAATGCTTCCGTGTAGACACTTAAGCTCGCCTTCGATCTCAGCGCAGCGGTG
CAGCCACAACGCGCAGCCCGTGGGCTCGTGATGCTTGTAGGTACCTCTGCAAACGACTGCAGGTACGCC
TGCAGGAATCGCCCCATCATCGTCACAAAGGTCTTGTTGCTGGTGAAGGTGAGCTGCAACCCGCGGTGCT
CCTCGTTTACGCCAGGTCTTGATACGGCCGCCAGAGCTTCCACTTGGTACAGGCAGTAGTTTGAAGTTTCGC
CTTTAGATCGTTATCCACGTGGTACTTGTCCATCAGCGCGCGCAGCCTCCATGCCCTTCTCCCACGCA
GACAGTACGGCAGCACTCAGCGGGTTCATACCCGTAATTTCACTTTCCGCTTCGCTGGGCTCTTCTCTT
CCTCTTGCCTCGCATACCAACGCGCCACTGGCTCGTCTTCACTTACGCCGCGCACTGTGCGCTTACTCTC
TTTGCCATGCTTGATTAGCACCGGTGGGTGCTGAAACCCACCATTGTAGCGCCACATCTTCTCTTTCT
TCCTCGCTGTCCACGATTACCTCTGGTGATGGCGGGCGCTCGGGCTTGGGAGAAGGGCGCTTCTTTTCT
TCTTGGGCGCAATGGCCAAATCCGCCGCCGAGGTGATGGCCGCGGGCTGGGTGTGCGCGGCACACGCGC
GTCTTGTGATGAGTCTTCTCGTCTCGGACTCGATACGCCGCTCATCCGCTTTTTTGGGGGCGCCCGG
GGAGGCGGCGCGACGGGGACGGGGACGACACGTCTCCATGGTTGGGGGACGTGCGCGCCGACCGCGTC
CGCGCTCGGGGGTGGTTTTCGCGCTGCTCCTCTTCCGACTGGCCATTTCTTCTCTATAGGCAGAAAAA
GATCATGGAGTCAGTCGAGAAGAAGGACAGCCTAACCGCCCCCTTGAGTTCGCCACCACCGCCTCCACC
GATGCCGCAACGCGCTACCACTTCCCCGTGAGGCACCCCCGCTTGAGGAGGAGGAAGTGATTATCG
AGCAGGACCCAGGTTTTGTAAAGCGAAGACGACGAGGACCGCTCAGTACCAACAGAGGATAAAAAAGCAAGA
CCAGGACAACGCAGAGGCAAAACGAGGAACAAGTCGGGCGGGGGACGAAAGGCATGGCGACTACCTAGAT
GTGGGAGACGACGTGCTGTTGAAGCATCTGCAGCGCCAGTGCGCCATTATCTGCGACGCGTTGCAAGAGC
GCAGCGATGTGCCCCCTCGCCATAGCGGATGTCAGCCTTGCTTACGAACGCCACCTATTCTACCGCGCGT
ACCCCCCAAACGCCAAGAAAACGGCACATGCGAGCCCAACCCGCGCCTCAACTTCTACCCCGTATTTGCC
GTGCCAGAGGTGCTTGCCACCTATCACATCTTTTCCAAAACCTGCAAGATACCCCTATCCTGCCGTGCCA
ACCGCAGCCGAGCGGACAAGCAGCTGGCCTTGCGGCAGGGCGCTGTACATACCTGATATCGCCTCGCTCAA
CGAAGTGCCAAAAATCTTTGAGGGTCTTGACGCGACGAGAAGCGCGCGGCAACGCTCTGCAACAGGAA
AACAGCGAAAAATGAAAGTCACTCTGGAGTGTGGTGGAACTCGAGGGTGACAACGCGCGCCTAGCCGTAC
TAAACGCGAGCATCGAGGTCAACCACTTGGCTACCCGCACTTAACCTACCCCCAAGGTCATGAGCAC
AGTCATGAGTGAGCTGATCGTGCGCCGTGCGCAGCCCCCTGGAGAGGGATGCAAATTTGCAAGAACAACA

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

GAGGAGGGCCTACCCGAGTTGGCGACGAGCAGCTAGCGCGCTGGCTTCAAACGCGCGAGCCTGCCGACT
TGGAGGAGCGACGCAAACTAATGATGGCCGAGTGCTCGTTACCGTGGAGCTTGAGTGCATGCAGCGGTT
CTTTGCTGACCCGGAGATGCAGCGCAAGCTAGAGGAAACATTGCACTACACCTTTTCGACAGGGCTACGTA
CGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGCAACCTGGTCTCCTACCTTGAATTTTGCACGAAA
ACCGCCTTGGGCAAAACGTGCTTCATTCACGCTCAAGGGCGAGGCGCGCCGCGACTACGTCCGCGACTG
CGTTTACTTATTTCTATGCTACACCTGGCAGACGGCCATGGGCGTTTGGCAGCAGTGCTTGGAGGAGTGC
AACCTCAAGGAGCTGCAGAACTGCTAAAGCAAACTTGAAGGACCTATGGACGGCCTTCAACGAGCGCT
CCGTGGCCGCGCACCTGGCGGACATCATTTTCCCCGAACGCTGCTTAAACCCCTGCAACAGGGTCTGCC
AGACTTCACCAGTCAAAGCATGTTGCAGAACCTTAGGAACCTTATCCTAGAGCGCTCAGGAATCTTGCCC
GCCACCTGCTGTGCACTTCTAGCGACTTTGTGCCATTAAAGTACCGCAATGCCCTCCGCGCTTTGGG
GCCACTGCTACCTTCTGCAGCTAGCCAACTACCTTGCTTACCCTCTGACATAATGGAAGACGTGAGCGG
TGACGGTCTACTGGAGTGTCACTGTGCTGCAACCTATGCACCCCGCACCGCTCCCTGGTTTGCAATTCTG
CAGCTGCTTAACGAAAGTCAAATTATCGGTACCTTTGAGCTGCAGGGTCCCTCGCCTGACGAAAAGTCCG
CGGCTCCGGGGTTGAAACTCACTCCGGGGCTGTGGACGTCCGCTTACCTTCGCAAATTTGTACCTGAGGA
CTACCACGCCCACGAGATTAGGTTCTACGAAGACCAATCCCGCCCGCCAAATGCGGAGCTTACCGCCTGC
GTCATTACCCAGGGCCACATTCTTGGCCAATTGCAAGCCATCAACAAAGCCCGCAAGAGTTTCTGTCTAC
GAAAGGGACGGGGGTTTACTTGGACCCCGAGTCCGGCGAGGAGCTCAACCCAATCCCCCGCCGCGCGCA
GCCCTATCAGCAGCAGCCGCGGGCCCTTGCTTCCAGGATGGCACCCAAAAAGAAGCTGCAGCTGCCGCC
GCCACCCACGACGAGGAGGAATACTGGGACAGTCAGGCAGAGGAGGTTTTTGGACGAGGAGGAGGAGGAC
ATGATGGAAGACTGGGAGAGCCTAGACGAGGAAGCTTCCGAGGTGCAAGAGGTGTGACGAAACACCGT
CACCTCGGTGCGATTCCCTCGCCGCGCCCCAGAAATCGGCAACCGGTTCCAGCATGGCTACAACCTC
CGCTCCTCAGGCGCCGCGGCACTGCCCCGTTCCGCCACCCAACCGTAGATGGGACACCACTGGAACAGG
GCCGGTAAGTCCAAGCAGCCGCGCCGCTTAGCCCAAGAGCAACAACAGCGCCAAGGCTACCGCTCATGGC
GCGGGCACAAGAACGCCATAGTTGCTTGCTTGCAAGACTGTGGGGGCAACATCTCCTTCGCCCCGCGCTT
TCTTCTCTACCATCAGGCGTGCCCTTCCCCGTAACATCCTGCATTACTACCGTCATCTCTACAGCCCA
TACTGCACCGCGCGCAGCGGCAGCGGCAGCAACAGCAGCGGCCACACAGAAGCAAAGCGACCGGATAGC
AAGACTCTGACAAAGCCCCAAGAAATCCACAGCGCGGCAGCAGCAGGAGGAGGAGCGCTGCGTCTGGCGC
CCAACGAACCCGTATCGACCCGCGAGCTTAGAAACAGGATTTTTTCCCACTCTGTATGCTATATTTCAACA
GAGCAGGGGCCAAGAACAAGAGCTGAAAATAAAAAACAGGTCTCTGCGATCCCTCACCCGAGCTGCCTG
TATCACAAAAGCGAAGATCAGCTTCGGCGCACGCTGGAAGACGCGGAGGCTCTCTTCAGTAAATACTGCG
CGCTGACTCTTAAGGACTAGTTTCGCGCCCTTTCTCAAATTTAAGCGCGAAAACCTACGTATCTCCAGCG
GCCACACCCGCGCCAGCACCTGTGCTCAGCGCCATTATGAGCAAGGAAATTTCCACGCCCTACATGTGG
AGTTACCAGCCACAAATGGGACTTGCGGCTGGAGCTGCCCAAGACTACTCAACCCGAATAAACTACATGA
GCGCGGATACCCACATGATATCCCGGGTCAACGGAATCCGCGCCACCGAAACCGAATTCTCTTGGAACA
GGCGGCTTATACACCACTCGTAATAACCTTAATCCCGTAGTTGGCCGCTGCCCCGCTGGGTGATACAG
GAAAGTCCCGCTCCCACTGTGTACTTCCAGAGACGCCAGGCCGAAGTTTCAATGATGACTTAACAG
GGGCGCAGCTTGCGGGCGGCTTTCGTACAGGGTGCAGTCCGCGGCGGCGAGGATATAACTCACCTGACAAT
CAGAGGGCGAGGTATTGAGCTCAACGACGAGTCCGTGAGCTCCTCGCTTGGTCTCCGTCCGACGGGACA
TTTCAGATCGGCGCGCGCCGCTCCTTCAATCAGCCTCGTCAGGCAATCCTAACTCTGCAGACCTCGT
CCTCTGAGCCGCGCTCTGGAGGCATTGGAATCTTGCAATTTATTGAGGAGTTTGTGCCATCGGTCTACTT
TAACCCCTTCTCGGGACCTCCCGGCCACTATCCGGATCAATTTATTCCTAACTTTGACGCGGTAAAGGAC
TCGGCGGACGGCTACGACTGAATGTTAAGTGGAGAGGCAAGCAACTGCGCCTGAAACACCTGGTCCACT
GTCGCGGCCACAAGTGCTTTGCCCGGACTCCGGTGAGTTTGTACTTTGAATTGCCCGAGGATCATAT
CGAGGGCCCGCGCACGGCGTCCGGCTTACCGCCAGGGAGAGCTTGCCCGTAGCCTGATTCCGGGAGTTT
ACCCAGCGCCCCCTGTAGTTGAGCGGGACAGGGGACCCTGTGTTCTCACTGTGATTTGCAACTGTCTTA
ACCTTGATTACATCAAGATCTTTGTTGCCATCTCTGTGCTGAGTATAATAAATACAGAAATTAATAATAT
ACTGGGGCTCCTATCGCCATCTGTAAACGCCACCGTCTTACCCGCCCAAGCAAACCAAGGCGAACCTT
ACCTGGTACTTTTAACATCTCTCCCTCTGTGATTTACAACAGTTTCAACCCAGACGGAGTGAGTCTACGA
GAGAACCTCTCCGAGCTCAGCTACTCCATCAGAAAAACACCACCTCCTTACCTGCCGGGAACGTACGA
GTGCGTCAACGGCCGCTGCACCACACCTACCGCTGACCGTAAACCAGACTTTTTTCCGGACAGACCTCAA
TAACCTGTGTTTACCAGAACAGGAGGTGAGCTTAGAAAACCTTAGGGTATTAGGCCAAAGGCGCAGCTAC
TGTGGGGTTTATGAACAATTCAAGCAACTCTACGGGCTATTCTAATTGAGTTTCTCTAGAAATGGACGG
AATTATTACAGACAGCGCCTGCTAGAAAAGACGAGGGGAGCGGCCGAGCAACAGCGCATGAATCAAGAG
CTCCAAGACATGGTTAACTTGCACCAGTGCAAAAGGGGTATCTTTTGTCTGGTAAAGCAGGCCAAAGTCA

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

CCTACGACAGTAATACCACCGGACACCGCCTTAGCTACAAGTTGCCAACCAAGCGTCAGAAAATTGGTGGT
CATGGTGGGAGAAAAAGCCATTACCATAACTCAGCACTCGGTAGAAACCGAAGGCTGCATTCACTCACCT
TGTCAAGGACCTGAGGATCTCTGCACCCCTTATTAAGACCCTGTGCGGTCTCAAAGATCTTATCCCTTTA
ACTAATAAAAAAATAATAAAGCATCACTTACTTAAATCAGTTAGCAAATTTCTGTCCAGTTTATTCA
GCAGCACCTCCTTGCCCTCCTCCCAGCTCTGGTATTGCAGCTTCCTCCTGGCTGCAAACTTTCTCCACAA
TCTAAATGGAATGTCTAGTTTCTCCTGTTCCTGTCCATCCGCACCCACTATCTTCATGTTGTTGCAGATG
AAGCGCGCAAGACCGTCTGAAGATACCTTCAACCCCGTGTATCCATATGACACGGAACCGGTCTCCAA
CTGTGCCTTTTCTTACTCCTCCCTTTGTATCCCCCAATGGGTTTCAAGAGAGTCCCCCTGGGGTACTCTC
TTTGCGCTATCCGAACCTCTAGTTACCTCCAATGGCATGCTTGCGCTCAAATGGGCAACGGCCTCTCT
CTGGACGAGGCCGGCAACCTTACCTCCCAAAATGTAACCACTGTGAGCCACCTCTCAAAAAAACCAAGT
CAAACATAAACCTGGAAATATCTGCACCCCTCACAGTTACCTCAGAAGCCCTAACTGTGGCTGCCGCCGC
ACCTCTAATGGTCGCGGGCAACACACTCACCATGCAATCACAGGCCCGCTAACCGTGCACGACTCCAAA
CTTAGCATTGCCACCCAAGGACCCCTCACAGTGTCTAGAAGGAAAGCTAGCCCTGCAAACATCAGGCCCC
TCACCACCACCGATAGCAGTACCCCTTACTATCACTGCCTCACCCCTCTAACTACTGCCACTGGTAGCTT
GGGCATTGACTTGAAAGAGCCCATTTATACACAAAATGGAAAAGTAGGACTAAAGTACGGGGCTCCTTTG
CATGTAACAGACGACCTAAACACTTTGACCGTAGCAACTGGTCCAGGTGTGACTATTAATAATACTTCCT
TGCAAACTAAAGTTACTGGAGCCTTGGGTTTTGATTACACAGGCAATATGCAACTTAATGTAGCAGGAGG
ACTAAGGATTGATTCTCAAAACAGACGCCTTATACTTGATGTTAGTTATCCGTTTGATGCTCAAAACCAA
CTAAATCTAAGACTAGGACAGGGCCCTCTTTTTATAAACTCAGCCACAACCTTGGATATTAACACAACA
AAGGCCTTTACTTGTTTACAGCTTCAAACAATTCAAAAAGCTTGAGGTTAACCTAAGCACTGCCAAGGG
GTTGATGTTTGCAGCTACAGCCATAGCCATTAATGCAGGAGATGGGCTTGAATTTGGTTCACCTAATGCA
CCAAACACAAATCCCCCTCAAAACAAAAATTGGCCATGGCCTAGAATTTGATTCAAACAAGGCTATGGTTC
CTAAACTAGGAAGTGGCCTTAGTTTTGACAGCACAGGTGCCATTACAGTAGGAAACAAAAATAATGATAA
GCTAACTTTGTGGACCACACCAGCTCCATCTCCTAACTGTAGACTAAATGCAGAGAAAGATGCTAAACTC
ACTTTGGCTCTTAACAAAATGTGGCAGTCAAATCTTGCTACAGTTTCAGTTTGGCTGTTAAAGGCAGTT
TGGTCCAATATCTGGAACAGTTCAAAGTGCTCATCTTATTATAAGATTGACGAAAATGGAGTGCTACT
AAACAATTCCTTCTTGACCCAGAATATTGGAACCTTTAGAAATGGAGATCTTACTGAAGGCACACCTAT
ACAAACGCTGTTGGATTTATGCCTAACCTATCAGCTTATCCAAAATCTCACGGTAAAAGTGCCAAAAGTA
ACATTGTCTAGTCAAGTTTACTTAAACGGAGACAAAACCTGTAACACTAACCATTACACTAAACGG
TACACAGGAAACAGGAGACACAACCTCAAGTGCATACTCTATGTCAATTTTCATGGGACTGGTCTGGCCAC
AACTACATTAATGAAATATTTGCCACATCCTCTTACACTTTTTTCATACATTGCCCAAGAATAAAGATCG
TTTGTGTTATGTTTCAACGTGTTTATTTTCAATTGCAGAAAATTTTGAATCATTTTTTCATTTCAGTAGTA
TAGCCCCACCACCATAGCTTATACAGATCACCGTACCTTAATCAAACCTCACAGAACCTAGTATTCAA
CCTGCCACCTCCCTCCCAACACACAGAGTACACAGTCTTTCTCCCGGCTGGCCTTAAAAAGCATCATA
TCATGGGTAACAGACATATCTTAGGTGTTTATATTCCACAGGTTTTCTGTGCGAGCCAAAGCTCATCAG
TGATATTAATAAACTCCCCGGGCAGCTCACTTAAAGTTCATGTGCTGTCCAGCTGCTGAGCCACAGCTG
CTGTCCAACCTTGCGGTTGCTTAAACGGGCGGCGAAGGAGAAGTCCACGCCTACATGGGGGTAGAGTCATAA
TCGTGCATCAGGATAGGGCGGTGGTGCTGCAGCAGCGCGGAATAAACTGCTGCCGCCGCCCTCCGTCC
TGCAGGAATACAACATGGCAGTGCTCTCCTCAGCGATGATTGCGACCGCCCGCAGCATAAGGCGCCTTGT
CCTCCGGGCACAGCAGCGCACCCCTGATCTCACTTAAATCAGCACAGTAAGTGCAGCACAGCACCACAATA
TTGTTCAAATCCCACAGTGCAAGGCGCTGTATCCAAAGCTCATGGCGGGGACCACAGAACCCACGTGGC
CATCATACCACAAGCGCAGGTAGATTAAGTGGCGACCCCTCATAAACACGCTGGACATAAACATTACCTC
TTTTGGCATGTTGTAATTCACCACCTCCCGGTACCATATAAACCTCTGATTAAACATGGCGCCATCCACC
ACCATCCTAAACAGCTGGCCAAAACCTGCCCGCGGCTATACACTGCAGGGAACCGGGACTGGAACAAT
GACAGTGGAGAGCCAGGACTCGTAACCATGGATCATCATGCTCGTCATGATATCAATGTTGGCACAACA
CAGGCACACGTGCATACACTTCCTCAGGATTACAAGCTCCTCCCGGCTTAGAACCATATCCAGGGAACA
ACCCATTCTGAATCAGCGTAAATCCCACACTGCAGGGAAGACCTCGCACGTAAGTACAGTTGTGCATTG
TCAAAGTGTTACATTGGGGCAGCAGCGGATGATCCTCCAGTATGGTAGCGCGGGTTTCTGTCTCAAAGG
AGGTAGACGATCCCTACTGTACGGAGTGCGCCGAGACAACCGAGATCGTGTTGGTTCGTAGTGTATGCCA
AATGGAACGCCGGACGTAGTCATATTTCTGAAGCAAAACAGGTGCGGGCGTGACAAACAGATCTGCGT
CTCCGGTCTCGCGCTTAGATCGCTCTGTGTAGTAGTTGTAGTATATCCACTCTCTCAAAGCATCCAGGC
GCCCCCTGGCTTCGGGTTCTATGTAACTCCTTCATGCGCGCTGCCCTGATAACATCCACCACCGCAGA
ATAAGCCACACCCGCTAACCTACACATTCGTTCTGCGAGTCACACACGGGAGGAGCGGGAAGAGCTGGA
AGAACCATGTTTTTTTTTTTATTCCAAAAGATTATCCAAAACCTCAAATGAAGATCTATTAAGTGAACG

Table 11 (continued) Nucleotide sequence of pAd/CMV/V5-GW/*lacZ*.PL-DEST™
(SEQ ID NO: 88).

CGCTCCCTCCGGTGGCGTGGTCAAACCTCTACAGCCAAAGAACAGATAATGGCATTGTGTAAGATGTTGCA
CAATGGCTTCCAAAAGGCAAACGGCCCTCACGTCCAAGTGGACGTAAAGGCTAAACCCTTCAGGGTGAAT
CTCCTCTATAAACATTCCAGCACCTTCAACCATGCCAAATAATTCTCATCTCGCCACCTTCTCAATATA
TCTCTAAGCAAATCCCGAATATTAAGTCCGGCCATTGTAAAAATCTGCTCCAGAGCGCCCTCCACCTTCA
GCCTCAAGCAGCGAATCATGATTGCAAAAATTTCAGGTTCTCTACAGACCTGTATAAGATTCAAAAAGCGGA
ACATTAACAAAAATACCGCGATCCCGTAGGTCCCTTCGCAGGGCCAGCTGAACATAATCGTGCAGGTCTG
CACGGACCAGCGCGGCCACTTCCCCGCCAGGAACCTTGACAAAAGAACCACACTGATTATGACACGCAT
ACTCGGAGCTATGCTAACCAGCGTAGCCCCGATGTAAGCTTTGTTGCATGGGCGGCGATATAAAATGCAA
GGTGCTGCTCAAAAATCAGGCAAAGCCTCGCGCAAAAAGAAAGCACATCGTAGTCATGCTCATGCGAGA
TAAAGGCAGGTAAGCTCCGGAACCACCACAGAAAAAGACACCATTTTTCTCTCAAACATGCTCTGCGGGTT
TCTGCATAAACACAAAATAAAAATAACAAAAAACATTTAAACATTAGAAGCCTGTCTTACAACAGGAAAA
ACAACCCTTATAAGCATAAGACGGACTACGGCCATGCCGGCGTGACCGTAAAAAACTGGTCACCGTGAT
TAAAAAGCACCACCGACAGCTCCTCGGTTCATGTCCGGAGTCATAATGTAAGACTCGGTAAACACATCAGG
TTGATTACATCGGTTCAGTGCTAAAAAGCGACCGAAATAGCCCGGGGGAATACATACCCGCGAGGCGTAGA
GACAACATTACAGCCCCCATAGGAGGTATAACAAAATTAATAGGAGAGAAAAACACATAAACACCTGAAA
AACCTCCTGCCTAGGCAAAATAGCACCTTCCCGCTCCAGAACAACATACAGCGCTTCCACAGCGGCAGC
CATAACAGTCAGCCTTACCAGTAAAAAAGAAAACCTATTAAAAAAACACCACTCGACACGGCACCAGCTC
AATCAGTCACAGTGTAATAAAAGGGCCAAGTGCAGAGCGAGTATATATAGGACTAAAAAATGACGTAACGG
TTAAAGTCCACAAAAAACACCCAGAAAACCGCACGCGAACCTACGCCCAGAAAACGAAAAGCCAAAAACCC
ACAACCTTCTCAAATCGTCACTTCCGTTTTCCACGTTACGTCACTTCCCATTTTAAGAAAACCTACAATT
CCCAACACATACAAGTTACTCCGCCCTAAAACCTACGTACCCCGCCCCGTTCCACGCCCCGCGCCACGT
CACAACTCCACCCCCCTATTATCATATTGGCTTCAATCCAAAATAAGGTATATTATTGATGATGTTAAT
TAATTTAAATCCGCATGCGATATCGAGCTCTCCCGGAATTCGGATCTGCGACGCGAGGCTGGATGGCCT
TCCCCATTATGATTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCGTTGACAGGCCATGCTGTCCAGGCA
GGTAGATGACGACCATCAGGGACAGCTTCACGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTG
CTGGCGTTTTTCCATAGGCTCCGCCCCCTCAGCAGCATCACAAAAATCGACGCTCAAGTCAGAGTGGC
GAAACCCGACAGGACTATAAAGATACCAGGCGTTTTCCCTGGAAGCTCCCTCGTGCCTCTCTCTGTTCC
GACCCTGCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGAAGCGTGGCGCTTTCTCAATGCTCA
CGCTGTAGGTATCTCAGTTCCGGTGTAGGTCTGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTT
AGCCCGACCGCTGCGCCTTATCCGGTAACCTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCC
ACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAG
TGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCT
TCGGA AAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTGTTG
CAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTCTACGGGGTCTGAC
GCTCAGTGGAAACGAAAACTCAGTTAAGGATTTTGGTTCATGAGATTACAAAAAGGATCTTCACCTAGA
TCCTTTTAAATCAATCTAAAGTATATATAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAG
GCACCTATCTCAGCGATCTGTCTATTTCTGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTA
CGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCAGGCTCC
AGATTTATCAGCAATAAACAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTATCCGCC
TCCATCCAGTCTATTAAATGTTGCGGGAAGCTAGAGTAAGTAGTTCCGCCAGTTAATAGTTTGCGCAACG
TTGTTGCCATTGNTGCAGGCATCGTGGTGTACGCTCGTCTGTTGGTATGGCTTCATTCAGCTCCGGTTC
CCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAGCGGTTAGCTCCTTCGGTCCCTCCG
ATCGTTGTGCAAGTAAGTTGGCCGAGTGTATCACTCATGTTATGGCAGCACTGCATAATTCTCTTA
CTGTCTATGCCATCCGTAAGATGCTTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGT
TATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTA
AAAGTGCTCATCATTTGGAACCGTTCTTCGGGGCGAAAACCTCTCAAGGATCTTACCGCTGTTGAGATCCA
GTTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTTCTGGGTG
AGCAAAAACAGGAAGGCAAAATGCCGCAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATA
CTCTTCCTTTTTCAATATTAATTGAAGCATTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAAT
GTATTTAGAAAAATAAACAAATAGGGGTTCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGA
AACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGGATCC
GAATTCCCGGGAGAGCTCGATATCGCATGCGGATTTAAATTAATTAA

Please amend Table 12 on pages 395-403 as follows:

Table 12: Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```

                                OpIE-2 pr
~~~~~
1  CATGATGATA AACAAATGTAT GGTGCTAATG TTGCTTCAAC AACAAATTCTG
   GTACTACTAT TTGTTACATA CCACGATTAC AACGAAGTTG TTGTTAAGAC
                                OpIE-2 pr
~~~~~
51 TTGAACTGTG TTTTCATGTT TGCCAACAAG CACCTTTATA CTCGGTGGCC
   AACTTGACAC AAAAGTACAA ACGGTTGTTT GTGGAAATAT GAGCCACCGG
                                OpIE-2 pr
~~~~~
101 TCCCCACCAC CAACTTTTTT GACTGCAAA AAAACACGCT TTTGCACGCG
   AGGGGTGGTG GTTGAAAAAA CGTGACGTTT TTTTGTGCGA AAACGTGCGC
                                OpIE-2 pr
~~~~~
151 GGCCCATACA TAGTACAAAC TCTACGTTTC GTAGACTATT TTACATAAAT
   CCGGGTATGT ATCATGTTTG AGATGCAAAG CATCTGATAA AATGTATTTA
                                OpIE-2 pr
~~~~~
201 AGTCTACACC GTTGTATACG CTCCAAATAC ACTACCACAC ATTGAACCTT
   TCAGATGTGG CAACATATGC GAGGTTTATG TGATGGTGTG TAACTTGGAA
                                OpIE-2 pr
~~~~~
251 TTTGCAGTGC AAAAAAGTAC GTGTCGGCAG TCACGTAGGC CGGCCTTATC
   AAACGTCACG TTTTTCATG CACAGCCGTC AGTGCATCCG GCCGGAATAG
                                OpIE-2 pr
~~~~~
301 GGGTCGCGTC CTGTCACGTA CGAATCACAT TATCGGACCG GACGAGTGTT
   CCCAGCGCAG GACAGTGCAT GCTTAGTGTA ATAGCCTGGC CTGCTCACAA
                                OpIE-2 pr
~~~~~
351 GTCTTATCGT GACAGGACGC CAGCTTCCTG TGTGCTAAC CGCAGCCGGA
   CAGAATAGCA CTGTCCTGCG GTCGAAGGAC ACAACGATTG GCGTCGGCCT
                                OpIE-2 pr
~~~~~
401 CGCAACTCCT TATCGGAACA GGACGCGCCT CCATATCAGC CGCGCGTTAT
   GCGTTGAGGA ATAGCCTTGT CCTGCGCGGA GGTATAGTCG GCGCGCAATA
                                OpIE-2 pr
~~~~~
451 CTCATGCACG TGACCGGACA CGAGGCGCCC GTCCCGCTTA TCGCGCCTAT
   GAGTACGTGC ACTGGCCTGT GCTCCGCGGG CAGGGCGAAT AGCGCGGATA
                                OpIE2FOR
~~~~~
                                OpIE-2 pr
~~~~~

```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```

501  AAATACAGCC CGCAACGATC TGGTAAACAC AGTTGAACAG CATCTGTTTCG
    TTTATGTCGG GCGTTGCTAG ACCATTTGTG TCAACTTGTC GTAGACAAGC
551  AATTTAAAGC TTGATATCGA ATTCCTGCAG CCCAGCGCTG GATCCTCGAT
    TTAAATTTTCG AACTATAGCT TAAGGACGTC GGGTCGCGAC CTAGGAGCTA
        attR1
    ~~~~~
601  CACAAGTTTG TACAAAAAAG CTGAACGAGA AACGTAAAAT GATATAAATA
    GTGTTCAAAC ATGTTTTTTC GACTTGCTCT TTGCATTTTA CTATATTTAT
        attR1
    ~~~~~
651  TCAATATATT AAATTAGATT TTGCATAAAA AACAGACTAC ATAATACTGT
    AGTTATATAA TTTAATCTAA AACGTATTTT TTGTCTGATG TATTATGACA
        attR1
    ~~~~~
701  AAAACACAAC ATATCCAGTC ACTATGGCGG CCGCATTAGG CACCCCAGGC
    TTTTGTGTTG TATAGGTCAG TGATACCGCC GCGGTAATCC GTGGGGTCCG
751  TTTACACTTT ATGCTTCCGG CTCGTATAAT GTGTGGATTT TGAGTTAGGA
    AAATGTGAAA TACGAAGGCC GAGCATATTA CACACCTAAA ACTCAATCCT
        Cmr
    ~~~~~
801  TCCGTCGAGA TTTTCAGGAG CTAAGGAAGC TAAAATGGAG AAAAAAATCA
    AGGCAGCTCT AAAAGTCCTC GATTCCTTCG ATTTTACCTC TTTTTTTAGT
        Cmr
    ~~~~~
851  CTGGATATAC CACCGTTGAT ATATCCCAAT GGCATCGTAA AGAACATTTT
    GACCTATATG GTGGCAACTA TATAGGGTTA CCGTAGCATT TCTTGTAATA
        Cmr
    ~~~~~
901  GAGGCATTTT AGTCAGTTGC TCAATGTACC TATAACCAGA CCGTTCAGCT
    CTCCGTAAAG TCAGTCAACG AGTTACATGG ATATTGGTCT GGCAAGTCGA
        Cmr
    ~~~~~
951  GGATATTACG GCCTTTTTTA AGACCGTAAA GAAAAATAAG CACAAGTTTT
    CCTATAATGC CGGAAAAATT TCTGGCATTT CTTTTTATTC GTGTTCAAAA
        Cmr
    ~~~~~
1001 ATCCGGCCTT TATTCACATT CTTGCCCGCC TGATGAATGC TCATCCGGAA
    TAGGCCGGAA ATAAGTGTA GAACGGGCGG ACTACTTACG AGTAGGCCTT
        Cmr
    ~~~~~
1051 TTCCGTATGG CAATGAAAGA CGGTGAGCTG GTGATATGGG ATAGTGTTC
    AAGGCATACC GTTACTTTCT GCCACTCGAC CACTATACCC TATCACAAGT
        Cmr
    ~~~~~

```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```

1101  CCCTTGTTAC ACCGTTTTTC ATGAGCAAAC TGAAACGTTT TCATCGCTCT
      GGAACAATG TGGCAAAAGG TACTCGTTTG ACTTTGCAA AGTAGCGAGA
      Cmr
      ~~~~~
1151  GGAGTGAATA CCACGACGAT TTCCGGCAGT TTCTACACAT ATATTCGCAA
      CCTCACTTAT GGTGCTGCTA AAGGCCGTCA AAGATGTGTA TATAAGCGTT
      Cmr
      ~~~~~
1201  GATGTGGCGT GTTACGGTGA AAACCTGGCC TATTTCCCTA AAGGGTTTAT
      CTACACCGCA CAATGCCACT TTTGGACCGG ATAAAGGGAT TTCCCAAATA
      Cmr
      ~~~~~
1251  TGAGAATATG TTTTTCGTCT CAGCCAATCC CTGGGTGAGT TTCACCAGTT
      ACTCTTATAC AAAAAGCAGA GTCGGTTAGG GACCCACTCA AAGTGGTCAA
      Cmr
      ~~~~~
1301  TTGATTTAAA CGTGGCCAAT ATGGACAAC TCTTCGCCCC CGTTTTACAC
      AACTAAATTT GCACCGGTGA TACCTGTTGA AGAAGCGGGG GCAAAAGTGG
      Cmr
      ~~~~~
1351  ATGGGCAAAT ATTATACGCA AGGCGACAAG GTGCTGATGC CGCTGGCGAT
      TACCCGTTTA TAATATGCGT TCCGCTGTTT CACGACTACG GCGACCGCTA
      Cmr
      ~~~~~
1401  TCAGGTTTCAT CATGCCGTTT GTGATGGCTT CCATGTCGGC AGAATGCTTA
      AGTCCAAGTA GTACGGCAAA CACTACCGAA GGTACAGCCG TCTTACGAAT
      Cmr
      ~~~~~
1451  ATGAATTACA ACAGTACTGC GATGAGTGGC AGGGCGGGGC GTAAACGCGT
      TACTTAATGT TGTCATGACG CTAATCACC GATTCGCGCA
1501  GGATCCGGCT TACTAAAAGC CAGATAACAG TATGCGTATT TCGCGCTGA
      CCTAGGCCGA ATGATTTTCG GTCTATTGTC ATACGCATAA ACGCGCGACT
1551  TTTTTCGCGT ATAAGAATAT ATACTGATAT GTATACCCGA AGTATGTCAA
      AAAAACGCCA TATTCTTATA TATGACTATA CATATGGGCT TCATACAGTT
1601  AAAGAGGTAT GCTATGAAGC AGCGTATTAC AGTGACAGTT GACAGCGACA
      TTTCTCCATA CGATACTTCG TCGCATAATG TCACTGTCAA CTGTCGCTGT
1651  GCTATCAGTT GCTCAAGGCA TATATGATGT CAATATCTCC GGTCTGGTAA
      CGATAGTCAA CGAGTTCCGT ATATACTACA GTTATAGAGG CCAGACCATT
1701  GCACAACCAT GCAGAATGAA GCCCGTCGTC TGCGTGCCGA ACGCTGGAAA
      CGTGTGGTGA CGTCTTACTT CGGGCAGCAG ACGCACGGCT TGCGACCTTT
1751  GCGGAAAATC AGGAAGGGAT GGCTGAGGTC GCCCGGTTTA TTGAAATGAA
      CGCCTTTTAG TCCTTCCCTA CCGACTCCAG CGGGCCAAAT AACTTTACTT
      ccdB
      ~~~~~

```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```

1801  CGGCTCTTTT GCTGACGAGA ACAGGGGCTG GTGAAATGCA GTTTAAGGTT
      GCCGAGAAAA CGACTGCTCT TGTCCCCGAC CACTTTACGT CAAATTCCAA
      ccdB
      ~~~~~
1851  TACACCTATA AAAGAGAGAG CCGTTATCGT CTGTTTGTGG ATGTACAGAG
      ATGTGGATAT TTTCTCTCTC GGCAATAGCA GACAAACACC TACATGTCTC
      ccdB
      ~~~~~
1901  TGATATTATT GACACGCCCC GCGACGGAT GGTGATCCCC CTGGCCAGTG
      ACTATAATAA CTGTGCGGGC CCGCTGCCTA CCACTAGGGG GACCGGTCAC
      ccdB
      ~~~~~
1951  CACGTCTGCT GTCAGATAAA GTCTCCCGTG AACTTTACCC GGTGGTGCAT
      GTGCAGACGA CAGTCTATTT CAGAGGGCAC TTGAAATGGG CCACCACGTA
      ccdB
      ~~~~~
2001  ATCGGGGATG AAAGCTGGCG CATGATGACC ACCGATATGG CCAGTGTGCC
      TAGCCCCTAC TTTCGACCGC GTACTACTGG TGGCTATACC GGTCACACGG
      ccdB
      ~~~~~
2051  GGTCTCCGTT ATCGGGGAAG AAGTGGCTGA TCTCAGCCAC CGCGAAAATG
      CCAGAGGCAA TAGCCCCTTC TTCACCGACT AGAGTCGGTG GCGCTTTTAC
      ccdB
      ~~~~~
2101  ACATCAAAAA CGCCATTAAC CTGATGTTCT GGGGAATATA AATGTCAGGC
      TGTAGTTTTT GCGGTAATTG GACTACAAGA CCCCTTATAT TTACAGTCCG
      attr2
      ~~~~~
2151  TCCCTTATAC ACAGCCAGTC TGCAGGTCGA CCATAGTGAC TGGATATGTT
      AGGGAATATG TGTCGGTCAG ACGTCCAGCT GGTATCACTG ACCTATACAA
      attr2
      ~~~~~
2201  GTGTTTTACA GTATTATGTA GTCTGTTTTT TATGCAAAAT CTAATTTAAT
      CACAAAATGT CATAATACAT CAGACAAAAA ATACGTTTTA GATTAAATTA
      attr2
      ~~~~~
2251  ATATTGATAT TTATATCATT TTACGTTTCT CGTTCAGCTT TCTTGTACAA
      TATAACTATA AATATAGTAA AATGCAAAGA GCAAGTCGAA AGAACATGTT
      attr2 V5 tag
      ~~~~~
2301  AGTGGTGATC GACCCGGGTC TAGAGGGCCC GCGGTTTCGAA GGTAAGCCTA
      TCACCACTAG CTGGGCCAG ATCTCCCGGG CGCCAAGCTT CCATTCGGAT
      V5 tag
      ~~~~~

```

Poly His 6
tag

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```

2351  TCCCTAACCC TCTCCTCGGT CTCGATTCTA CGCGTACCGG TCATCATCAC
      AGGGATTGGG AGAGGAGCCA GAGCTAAGAT GCGCATGGCC AGTAGTAGTG
      Poly His 6 tag                               OpIE-2 PolyA
      ~~~~~~
2401  CATCACCATT GAGTTTATCT GACTAAATCT TAGTTTGTAT TGTCATGTTT
      GTAGTGGTAA CTCAAATAGA CTGATTTAGA ATCAAACATA ACAGTACAAA
      OpIE-2 PolyA
      ~~~~~~
2451  TAATACAATA TGTTATGTTT AAATATGTTT TTAATAAATT TTATAAAATA
      ATTATGTTAT ACAATACAAA TTTATACAAA AATTATTTAA AATATTTTAT
      OpIE-2 PolyA
      ~~~~~~
2501  ATTTCAACTT TTATTGTAAC AACATTGTCC ATTTACACAC TCCTTTCAAG
      TAAAGTTGAA AATAACATTG TTGTAACAGG TAAATGTGTG AGGAAAGTTC
2551  CGCGTGCGGAT CGATGCTCAC TCAAAGGCGG TAATACGGTT ATCCACAGAA
      GCGCACCCCTA GCTACGAGTG AGTTTCCGCC ATTATGCCAA TAGGTGTCTT
      pMB1 ori
      ~~~~~~
2601  TCAGGGGATA ACGCAGGAAA GAACATGTGA GCAAAAGGCC AGCAAAAGGC
      AGTCCCCTAT TGCGTCCTTT CTTGTACACT CGTTTTCCGG TCGTTTTCCG
      pMB1 ori
      ~~~~~~
2651  CAGGAACCGT AAAAAGGCCG CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC
      GTCCTTGGCA TTTTTCGGGC GCAACGACCG CAAAAGGTA TCCGAGGCGG
      pMB1 ori
      ~~~~~~
2701  CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG GTGGCGAAAC
      GGGGACTGCT CGTAGTGTTT TTAGCTGCGA GTTCAGTCTC CACCGCTTTG
      pMB1 ori
      ~~~~~~
2751  CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCCTGGAA GCTCCCTCGT
      GGCTGTCCTG ATATTTCTAT GGTCCGCAAA GGGGGACCTT CGAGGGAGCA
      pMB1 ori
      ~~~~~~
2801  GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC
      CGCGAGAGGA CAAGGCTGGG ACGGCGAATG GCCTATGGAC AGGCGGAAAG
      pMB1 ori
      ~~~~~~
2851  TCCCTTCGGG AAGCGTGGCG CTTTCTCATA GCTCACGCTG TAGGTATCTC
      AGGGAAGCCC TTCGCACCGC GAAAGAGTAT CGAGTGCGAC ATCCATAGAG
      pMB1 ori
      ~~~~~~

```


Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```

2901  AGTTCGGTGT AGGTCGTTCG CTCCAAGCTG GGCTGTGTGC ACGAACCCCC
      TCAAGCCACA TCCAGCAAGC GAGGTTTCGAC CCGACACACG TGCTTGGGGG
                pMB1 ori
      ~~~~~
2951  CGTTCAGCCC GACCGCTGCG CCTTATCCGG TAACTATCGT CTTGAGTCCA
      GCAAGTCGGG CTGGCGACGC GGAATAGGCC ATTGATAGCA GAACTCAGGT
                pMB1 ori
      ~~~~~
3001  ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC TGGTAACAGG
      TGGGCCATTC TGTGCTGAAT AGCGGTGACC GTCGTCGGTG ACCATTGTCC
                pMB1 ori
      ~~~~~
3051  ATTAGCAGAG CGAGGTATGT AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG
      TAATCGTCTC GCTCCATACA TCCGCCACGA TGTCTCAAGA ACTTCACCAC
                pMB1 ori
      ~~~~~
3101  GCCTAACTAC GGCTACACTA GAAGAACAGT ATTTGGTATC TGCCTCTGTC
      CGGATTGATG CCGATGTGAT CTTCTTGTC AATACCATAG ACGCGAGACG
                pMB1 ori
      ~~~~~
3151  TGAAGCCAGT TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA
      ACTTCGGTCA ATGGAAGCCT TTTTCTCAAC CATCGAGAAC TAGGCCGTTT
                pMB1 ori
      ~~~~~
3201  CAAACCACCG CTGGTAGCGG TGGTTTTTTT GTTTGCAAGC AGCAGATTAC
      GTTTGGTGGC GACCATCGCC ACCAAAAAAA CAAACGTTTC TCGTCTAATG
                pMB1 ori
      ~~~~~
3251  GCGCAGAAAA AAAGGATCTC AAGAAGATCC TTTGATCTTT TCTACGGGGT
      CGCGTCTTTT TTTCTTAGAG TTCTTCTAGG AAAC TAGAAA AGATGCCCCA
3301  CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT GGTCATGCCC
      GACTGCGAGT CACCTTGCTT TTGAGTGCAA TTCCCTAAAA CCAGTACGGG
                GP64 promoter
      ~~~~~
3351  TTGTTCCGAA GGGTTGTGTC ACGTAGGCCA GATAACGGTC GGGTATATAA
      AACAAGGCTT CCCAACACAG TGCATCCGGT CTATTGCCAG CCCATATATT
                GP64 promoter
      ~~~~~
3401  GATGCCTCAA TGCTACTAGT AAATCAGTCA CACCAAGGCT TCAATAAGGA
      CTACGGAGTT ACGATGATCA TTTAGTCAGT GTGGTTCCGA AGTTATTCTT
      GP64 promoter                                EM7
      ~~~~~
3451  ACACACAAGC AAGCCCTTTG AGTCAAGGGC TGCCGGGCTG CAGCACGTGT
      TGTGTGTTTC TTCGGGAAAC TCAGTTCCCG ACGGCCCGAC GTCGTGCACA
                EM7
      ~~~~~

```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```

3501  TGACAATTAA TCATCGGCAT AGTATATCGG CATAGTATAA TACGACAAGG
      ACTGTTAATT AGTAGCCGTA TCATATAGCC GTATCATATT ATGCTGTTCC
                        Blastacidin(r)
      ~~~~~
3551  TGAGGAACTA AACCATGGCC AAGCCTTTGT CTCAAGAAGA ATCCACCCTC
      ACTCCTTGAT TTGGTACCGG TTCGGAACA GAGTTCTTCT TAGGTGGGAG
                        Blastacidin(r)
      ~~~~~
3601  ATTGAAAGAG CAACGGCTAC AATCAACAGC ATCCCCATCT CTGAAGACTA
      TAACTTTCTC GTTGCCGATG TTAGTTGTCTG TAGGGGTAGA GACTTCTGAT
                        Blastacidin(r)
      ~~~~~
3651  CAGCGTCGCC GCGCAGCTC TCTCTAGCGA CGGCCGCATC TTCACTGGTG
      GTCGCAGCGG CCGCGTCGAG AGAGATCGCT GCCGGCGTAG AAGTGACCAC
                        Blastacidin(r)
      ~~~~~
3701  TCAATGTATA TCATTTTACT GGGGGACCTT GCGCAGAACT CGTGGTGCTG
      AGTTACATAT AGTAAAATGA CCCCTGGAA CGCGTCTTGA GCACCACGAC
                        Blastacidin(r)
      ~~~~~
3751  GGCCTGCTG CTGCTGCGGC AGCTGGCAAC CTGACTTGTA TCGTCGCGAT
      CCGTGACGAC GACGACGCCG TCGACCGTTG GACTGAACAT AGCAGCGCTA
                        Blastacidin(r)
      ~~~~~
3801  CGGAAATGAG AACAGGGGCA TCTTGAGCCC CTGCGGACGG TGCCGACAGG
      GCCTTTACTC TTGTCCCCGT AGAACTCGGG GACGCCTGCC ACGGCTGTCC
                        Blastacidin(r)
      ~~~~~
3851  TTCTTCTCGA TCTGCATCCT GGGATCAAAG CCATAGTGAA GGACAGTGAT
      AAGAAGAGCT AGACGTAGGA CCCTAGTTTC GGTATCACTT CCTGTCACTA
                        Blastacidin(r)
      ~~~~~
3901  GGACAGCCGA CGGCAGTTGG GATTCGTGAA TTGCTGCCCT CTGGTTATGT
      CCTGTCGGCT GCCGTCAACC CTAAGCACTT AACGACGGGA GACCAATACA
      Blastacidin(r)
      ~~~~~
3951  GTGGGAGGGC TAAGCACTTC GTGGCCGAGG AGCAGGACTG ACACGTCCCG
      CACCCTCCCG ATTCGTGAAG CACCGGCTCC TCGTCCTGAC TGTGCAGGGC
4001  GGAGATCTGC ATGTCTACTA AACTCACAAA TTAGAGCTTC AATTTAATTA
      CCTCTAGACG TACAGATGAT TTGAGTGTTT AATCTCGAAG TTAAATTAAT
                        Amp (r)
      ~~~~~
4051  TATCAGTTAT TACCCATTGA AAAAGGAAGA GTATGAGTAT TCAACATTTT
      ATAGTCAATA ATGGGTAAC TTTTCCTTCT CATACTCATA AGTTGTAAAG
                        Amp (r)
      ~~~~~

```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```

4101  CGTGTGCGCC TTATTCCTT TTTTGC GGCA TTTTGCCTTC CTGTTTTTGC
      GCACAGCGGG AATAAGGGAA AAAACGCCGT AAAACGGAAG GACAAAAACG
      Amp (r)
      ~~~~~
4151  TCACCCAGAA ACGCTGGTGA AAGTAAAAGA TGCTGAAGAT CAGTTGGGTG
      AGTGGGTCTT TGCGACCACT TTCATTTTCT ACGACTTCTA GTCAACCCAC
      Amp (r)
      ~~~~~
4201  CACGAGTGGG TTACATCGAA CTGGATCTCA ACAGCGGTAA GATCCTTGAG
      GTGCTCACCC AATGTAGCTT GACCTAGAGT TGTCGCCATT CTAGGAACTC
      Amp (r)
      ~~~~~
4251  AGTTTTTCGCC CCGAAGAACG TTTTCCAATG ATGAGCACTT TTAAAGTTCT
      TCAAAAGCGG GGCTTCTTGC AAAAGGTTAC TACTCGTGAA AATTTCAAGA
      Amp (r)
      ~~~~~
4301  GCTATGTGGC GCGGTATTAT CCCGTATTGA CGCCGGGCAA GAGCAACTCG
      CGATACACCG CGCCATAATA GGGCATAACT GCGGCCCCGT CTCGTTGAGC
      Amp (r)
      ~~~~~
4351  GTCGCCGCAT AACTATTCT CAGAATGACT TGGTTGAGTA CTCACCACTC
      CAGCGGCGTA TGTGATAAGA GTCTTACTGA ACCAACTCAT GAGTGGTCAG
      Amp (r)
      ~~~~~
4401  ACAGAAAAGC ATCTTACGGA TGGCATGACA GTAAGAGAAT TATGCAGTGC
      TGTCTTTTCG TAGAATGCCT ACCGTACTGT CATTCTCTTA ATACGTCACG
      Amp (r)
      ~~~~~
4451  TGCCATAACC ATGAGTGATA AACTGCGGC CAACTTACTT CTGACAACGA
      ACGGTATTGG TACTCACTAT TGTGACGCCG GTTGAATGAA GACTGTTGCT
      Amp (r)
      ~~~~~
4501  TCGGAGGACC GAAGGAGCTA ACCGCTTTTT TGCACAACAT GGGGGATCAT
      AGCCTCCTGG CTTCTCGAT TGGCGAAAAA ACGTGTTGTA CCCCCTAGTA
      Amp (r)
      ~~~~~
4551  GTAACTCGCC TTGATCGTTG GGAACCGGAG CTGAATGAAG CCATACCAAA
      CATTGAGCGG AACTAGCAAC CCTTGGCCTC GACTTACTTC GGTATGGTTT
      Amp (r)
      ~~~~~
4601  CGACGAGCGT GACACCACGA TGCCTGTAGC AATGGCAACA ACGTTGCGCA
      GCTGCTCGCA CTGTGGTGCT ACGGACATCG TTACCGTTGT TGCAACGCGT
      Amp (r)
      ~~~~~

```

Table 12 (continued) Nucleotide sequence of pIB/V5-His-DEST (SEQ ID NO: 89).

```
4651  AACTATTAAC TGGCGAACTA CTTACTCTAG CTTCCCGGCA ACAATTAATA
      TTGATAATTG ACCGCTTGAT GAATGAGATC GAAGGGCCGT TGTTAATTAT
      Amp (r)
      ~~~~~
4701  GACTGGATGG AGGCGGATAA AGTTGCAGGA CCACTTCTGC GCTCGGCCCT
      CTGACCTACC TCCGCCTATT TCAACGTCCT GGTGAAGACG CGAGCCGGGA
      Amp (r)
      ~~~~~
4751  TCCGGCTGGC TGGTTTATTG CTGATAAATC TGGAGCCGGT GAGCGTGGGT
      AGGCCGACCG ACCAAATAAC GACTATTTAG ACCTCGGCCA CTCGCACCCA
      Amp (r)
      ~~~~~
4801  CTCGCGGTAT CATTGCAGCA CTGGGGCCAG ATGGTAAGCC CTCCCGTATC
      GAGCGCCATA GTAACGTCGT GACCCCGGTC TACCATTTCG GAGGGCATAG
      Amp (r)
      ~~~~~
4851  GTAGTTATCT ACACGACGGG GAGTCAGGCA ACTATGGATG AACGAAATAG
      CATCAATAGA TGTGCTGCCC CTCAGTCCGT TGATACCTAC TTGCTTTATC
      Amp (r)
      ~~~~~
4901  ACAGATCGCT GAGATAGGTG CCTCACTGAT TAAGCATTGG TAACTGTCAG
      TGTCTAGCGA CTCTATCCAC GGAGTGACTA ATTCGTAACC ATTGACAGTC
4951  ACCAAGTTTA CTCATATATA CTTTAGATTG ATTTAAAACT TCATTTTTAA
      TGGTTCAAAT GAGTATATAT GAAATCTAAC TAAATTTTGA AGTAAAAATT
5001  TTTAAAAGGA TCTAGGTGAA GATCCTTTTT GATAATCT
      AAATTTTCCT AGATCCACTT CTAGGAAAAA CTATTAGA
```

Please amend Table 13 on pages 404-415 as follows:

Table 13: Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

ph promoter
~~~~~
1   ATAAGTATTT TACTGTTTTC GTAACAGTTT TGTAATAAAA AAACCTATAA
   TATTCATAAA ATGACAAAAG CATTGTCAAA ACATTATTTT TTTGGATATT
51  ATATTCCGGA TTATTCATAC CGTCCCACCA TCGGGCGCGG ATCCCCGGGT
   TATAAGGCCT AATAAGTATG GCAGGGTGGT AGCCCGCGCC TAGGGGCCCA
                                att R1
                                ~~~~~
101 ACCGATATCA CAAGTTTGTA CAAAAAAGCT GAACGAGAAA CGTAAATGA
   TGGCTATAGT GTTCAAACAT GTTTTTTCGA CTTGCTCTTT GCATTTTACT
                                att R1
                                ~~~~~
151 TATAAATATC AATATATTAA ATTAGATTTT GCATAAAAAA CAGACTACAT
   ATATTTATAG TTATATAATT TAATCTAAAA CGTATTTTTT GTCTGATGTA
   att R1
   ~~~~~
201 AATACTGTAA AACACAACAT ATCCAGTCAC TATGGCGGCC GCTCCCTAAC
   TTATGACATT TTGTGTTGTA TAGGTCAGTG ATACCGCCGG CGAGGGATTG
251 CCACGGGGCC CGTGGCTATG GCAGGGCTTG CCGCCCCGAC GTTGGCTGCG
   GGTGCCCCGG GCACCGATAC CGTCCCGAAC GGCGGGGCTG CAACCGACGC
301 AGCCCTGGGC CTTCAACCGA ACTTGGGGGT TGGGGTGGGG AAAAGGAAGA
   TCGGGACCCG GAAGTGGGCT TGAACCCCCA ACCCCACCCC TTTTCCTTCT
351 AACGCGGGCG TATTGGTCCC AATGGGGTCT CGGTGGGGTA TCGACAGAGT
   TTGCGCCCGC ATAACCAGGG TTACCCAGAG GCCACCCCAT AGCTGTCTCA
401 GCCAGCCCTG GGACCGAACC CCGCGTTTAT GAACAAACGA CCAACACCCC
   CGGTCGGGAC CCTGGCTTGG GCGCAAATA CTTGTTTGCT GGGTTGTGGG
451 GTGCGTTTTA TTCTGTCTTT TTATTGCCGT CATAGCGCGG GTTCCTTCCG
   CACGCAAAAT AAGACAGAAA AATAACGGCA GTATCGCGCC CAAGGAAGGC
501 GTATTGTCTC CTTCCGTGTT TCAGTTAGCC TCCCCCATCT CCCGGGCAAA
   CATAACAGAG GAAGGCACAA AGTCAATCGG AGGGGGTAGA GGGCCCGTTT
                                ~~~~~
                                tk gene
                                N A E G M E R A F
551 CGTGCGCGCC AGGTCGCAGA TCGTCGGTAT GGAGCCTGGG GTGGTGACGT
   GCACGCGCGG TCCAGCGTCT AGCAGCCATA CCTCGGACCC CACCACTGCA
                                ~~~~~
                                tk gene
                                T R A L D C I T P I S G P T T V H
601 GGGTCTGGAC CATCCCGGAG GTAAGTTGCA GCAGGGCGTC CCGGCAGCCG
   CCCAGACCTG GTAGGGCCTC CATTCAACGT CGTCCCGCAG GGCCGTCGGC
                                ~~~~~
                                tk gene
                                . T Q V M G S T L Q L L A D R C G A .

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

651  GCGGGCGATT GGTCGTAATC CAGGATAAAG ACATGCATGG GACGGAGGCG
    CGCCCCGCTAA CCAGCATTAG GTCCTATTTC TGTACGTACC CTGCCTCCGC
    ~~~~~
                                tk gene
    .. P S Q D Y D L I F V H M P R L R
701  TTTGGCCAAG ACGTCCAAAG CCCAGGCAAA CACGTTATAC AGGTCCGCGT
    AAACCGGTTT TGCAGGTTTC GGGTCCGTTT GTGCAATATG TCCAGCGGCA
    ~~~~~
                                tk gene
    K A L V D L A W A F V N Y L D G N .
751  TGGGGGCCAG CAACTCGGGG GCCCGAAACA GGGTAAATAA CGTGTCCCCG
    ACCCCCGGTC GTTGAAGCCCC CGGGCTTTGT CCCATTTATT GCACAGGGGC
    ~~~~~
                                tk gene
    . P A L L E P A R F L T F L T D G I .
801  ATATGGGGTC GTGGGCCCCG GTTGCTCTGG GGCTCGGCAC CCTGGGGCGG
    TATACCCCAG CACCCGGGCG CAACGAGACC CCGAGCCGTG GGACCCCGCC
    ~~~~~
                                tk gene
    .. H P R P G A N S Q P E A G Q P P
851  CACGGCCGCC CCCGAAAGCT GTCCCCAATC CTCCCGCCAC GACCCGCCGC
    GTGCCGGCGG GGGCTTTTCG CAGGGGTTAG GAGGGCGGTG CTGGGCGGCG
    ~~~~~
                                tk gene
    V A A G S L Q G W D E R W S G G G .
901  CCTGCAGATA CCGCACCGTA TTGGCAAGCA GCCCATAAAC GCGGCGAATC
    GGACGTCTAT GGCGTGGCAT AACCGTTCGT CGGGTATTTG CGCCGCTTAG
    ~~~~~
                                tk gene
    . Q L Y R V T N A L L G Y V R R I A .
951  GCGGCCAGCA TAGCCAGGTC AAGCCGCTCG CCGGGGCGCT GGCGTTTGGC
    CGCCGGTCGT ATCGGTCCAG TTCGGCGAGC GGCCCCGCGA CCGCAAACCG
    ~~~~~
                                tk gene
    .. A L M A L D L R E G P R Q R K A
1001 CAGGCGGTCTG ATGTGTCTGT CCTCCGGAAG GGCCCCAAC ACGATGTTTG
    GTCCGCCAGC TACACAGACA GGAGGCCTTC CCGGGGGTTG TGCTACAAAC
    ~~~~~
                                tk gene
    L R D I H R D E P L A G L V I N T .
1051 TGCCGGGCAA GGTCGGCGGG ATGAGGGCCA CGAACGCCAG CACGGCCTGG
    ACGGCCGTT CCAGCCGCC TACTCCCGGT GCTTGCGGTC GTGCCGGACC
    ~~~~~
                                tk gene
    . G P L T P P I L A V F A L V A Q P .

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

1101  GGGGTCATGC TGCCCATAAAG GTATCGCGCG GCCGGGTAGC ACAGGAGGGC
      CCCCAGTACG ACGGGTATTC CATAGCGCGC CGGCCCATCG TGTCTTCCCG
      ~~~~~
                        tk gene
      .. T M S   G M L   Y R A A   P Y C   L L A
1151  GGCGATGGGA TGGCGGTCGA AGATGAGGGT GAGGGCCGGG GGCGGGGGCAT
      CCGCTACCCT ACCGCCAGCT TCTACTCCCA CTCCCGGCCC CCGCCCCGTA
      ~~~~~
                        tk gene
      A I P H   R D F   I L T   L A P P   P A H .
1201  GTGAGCTCCC AGCCTCCCCC CCGATATGAG GAGCCAGAAC GGCGTCGGTC
      CACTCGAGGG TCGGAGGGGG GGCTATACTC CTCGGTCTTG CCGCAGCCAG
      ~~~~~
                        tk gene
      . S S G   A E G G   I H P   A L V   A D T V .
1251  ACGGCATAAG GCATGCCCAT TGTTATCTGG GCGCTTGTC A TTACCACCGC
      TGCCGTATTC CGTACGGGTA ACAATAGACC CGCGAACAGT AATGGTGGCG
      ~~~~~
                        tk gene
      .. A Y P   M G M   T I Q A   S T M   V V A
1301  CGCGTCCCCG GCCGATATCT CACCCTGGTC GAGGCGGTGT TGTGTGGTGT
      GCGCAGGGGC CGGCTATAGA GTGGGACCAG CTCCGCCACA ACACACCACA
      ~~~~~
                        tk gene
      A D G A   S I E   G Q D   L R H Q   T T Y .
1351  AGATGTTTCG GATTGTCTCG GAAGCCCCCA ACACCCGCCA GTAAGTCATC
      TCTACAAGCG CTAACAGAGC CTTCGGGGGT TGTGGGCGGT CATTAGTAG
      ~~~~~
                        tk gene
      . I N A   I T E S   A G L   V R W   Y T M P .
1401  GGCTCGGGTA CGTAGACGAT ATCGTCGCGC GAACCCAGGG CCACCAGCAG
      CCGAGCCCAT GCATCTGCTA TAGCAGCGCG CTTGGGTCCC GGTGGTCGTC
      ~~~~~
                        tk gene
      .. E P V   Y V I   D D R S   G L A   V L L
1451  TTGCGTGGTG GTGGTTTTCC CCATCCCGTG GGGACCGTCT ATATAAACCC
      AACGCACCAC CACCAAAAGG GGTAGGGCAC CCCTGGCAGA TATATTTGGG
      ~~~~~
                        tk gene
      Q T T T   T K G   M G H   P G D I   Y V R .
1501  GCAGTAGCGT GGGCATTTTC TGCTCCAGGC GGACTTCCGT GGCTTTTTGT
      CGTCATCGCA CCCGTAAAAG ACGAGGTCCG CCTGAAGGCA CCGAAAAACA
      ~~~~~
                        tk gene
      . L L T   P M K Q   E L R   V E T   A K Q Q .

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
1551  TGCCGGCGAG GGC GCAACGC CGTACGTCGG TTGTTATGGC CGCGAGAACG
      ACGGCCGCTC CCGCGTTGCG GCATGCAGCC AACAAATACCG GCGCTCTTGC
      ~~~~~
                        tk gene
      .. R R P R L A T R R N N H G R S R
1601  CGCAGCCTGG TCGAACGCAG ACGCGTGTTG ATGGCAGGGG TACGAAGCCA
      GCGTCGGACC AGCTTGCGTC TGCGCACAAC TACCGTCCCC ATGCTTCGGT
      ~~~~~
                        tk gene
      A A Q D F A S A H Q H C P Y S A M
1651  TAGATCCCGT TATCAATTAC TTATACTATC CGGCGCGCAA GCGAGCGTGT
      ATCTAGGGCA ATAGTTAATG AATATGATAG GCCGCGCGTT CGCTCGCACA
      ~~~~~
                        ie-0 promoter
1701  GCGCCGGAGC ACAATTGATA CTGATTTACG AGTTGGGCAA ACGGGCTTTA
      CGCGGCCCTCG TGTTAACTAT GACTAAATGC TCAACCCGTT TGCCCCGAAAT
      ~~~~~
                        ie-0 promoter
1751  TATAGCCTGT CCCCTCCACA GCCCTAGTGC CGTGCGCAAA GTGCCTACGT
      ATATCGGACA GGGGAGGTGT CGGGATCACG GCACGCGTTT CACGGATGCA
      ~~~~~
                        ie-0 promoter
1801  GACCAGGCTC TCCTACGCAT ATACAATCTT ATCTCTATAG ATAAGGTTTC
      CTGGTCCGAG AGGATGCGTA TATGTTAGAA TAGAGATATC TATTCCAAAG
      ~~~~~
                        ie-0 promoter
1851  CATATATAAA GCCTCTCGAT GGCTGAACGT GCACAGTATC GTGTTGATTT
      GTATATATTT CGGAGAGCTA CCGACTTGCA CGTGTCATAG CACAATAAA
      ~~~~~
                        ie-0 promoter
1901  CTGAGTGCTA ACTAACAGTT ACAATGAACC GTTTTTTTTCG AGAGAATAAC
      GACTCACGAT TGATTGTCAA TGTTACTTGG CAAAAAAGC TCTCTTATTG
      ~~~~~
                        ie-0 promoter
1951  ATTTTGTGACG CGCCAAGGAC CGGGGGCAAG GGTCGTGCCA AATCTTTGCC
      TAAAAACTGC GCGGTTCTTG GCCCCCGTTC CCAGCACGGT TTAGAAACGG
      ~~~~~
                        ie-0 promoter
2001  AGCGCCTGCC GCCAACTCGC CGCCGTCGCC TGTTTCGTCCG CCGCCAAAAT
      TCGCGGACGG CGGTTGAGCG GCGGCAGCGG ACAAGCAGGC GGCGGTTTTA
      ~~~~~
                        ie-0 promoter
2051  CTAACATCAA ACCACCTACG CGCATCTCTC CGCCTAAACA GCCTATGTGC
      GATTGTAGTT TGGTGGATGC GCGTAGAGAG GCGGATTTGT CGGATACACG
      ~~~~~
                        ie-0 promoter
```


Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

2101  ACCTCTCCGG CCAAGCCGTT GGAGCACAGC AGCATTGTAA GTAAAAAACC
      TGGAGAGGCC GGTTCGGCAA CCTCGTGTCTG TCGTAACATT CATTTTTTGG
      ~~~~~
                ie-0 promoter
2151  AGTCGTCAAC AGAAAAGATG GATATTTTGT GCCGCCCGAG TTTGGGAACA
      TCAGCAGTTG TCTTTTCTAC CTATAAAACA CGGCGGGCTC AAACCCTTGT
      ~~~~~
                ie-0 promoter
2201  AGTTTGAAGG TTTGCCCGCG TACAGCGACA AACTGGATTT CAAACAAGAG
      TCAAACTTCC AAACGGGCGC ATGTCGCTGT TTGACCTAAA GTTTGTTCTC
      ~~~~~
                ie-0 promoter
                                p10 promoter
2251  CGCGATCTAC GTACCTGCAG GCCCGGGCTC AACCCAACAC AATATATTAT
      GCGCTAGATG CATGGACGTC CGGGCCCGAG TTGGGTTGTG TTATATAATA
      ~~~~~
                p10 promoter
2301  AGTTAAATAA GAATTATTAT CAAATCATTT GTATATTAAT TAAAATACTA
      TCAATTTATT CTTAATAATA GTTAGTAAA CATATAATTA ATTTTATGAT
      ~~~~~
                p10 promoter                                lacZ
                                M   T   M   I   T   .
2351  TACTGTAAAT TACATTTTAT TTACAATTCA CTCTAGAATG ACCATGATTA
      ATGACATTTA ATGTAAAATA AATGTTAAGT GAGATCTTAC TGGTACTAAT
      ~~~~~
                                lacZ
      .   D   S   L   A   V   V   L   Q   R   R   D   W   E   N   P   G
2401  CGGATTCACT GGCCGTCGTT TTACAACGTC GTGACTGGGA AAACCCTGGC
      GCCTAAGTGA CCGGCAGCAA AATGTTGCAG CACTGACCCT TTTGGGACCG
      ~~~~~
                                lacZ
      V   T   Q   L   N   R   L   A   A   H   P   P   F   A   S   W   R   .
2451  GTTACCCAAC TTAATCGCCT TGCAGCACAT CCCCCTTTTCG CCAGCTGGCG
      CAATGGGTTG AATTAGCGGA ACGTCGTGTA GGGGGAAGC GGTGACCGC
      ~~~~~
                                lacZ
      .   N   S   E   E   A   R   T   D   R   P   S   Q   Q   L   R   S   L   .
2501  TAATAGCGAA GAGGCCCGCA CCGATCGCCC TTCCCAACAG TTGCGCAGCC
      ATTATCGCTT CTCCGGGCGT GGCTAGCGGG AAGGGTTGTC AACGCGTCGG
      ~~~~~
                                lacZ
      .   N   G   E   W   R   F   A   W   F   P   A   P   E   A   V   P

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

2551   TGAATGGCGA ATGGCGCTTT GCCTGGTTTC CGGCACCAGA AGCGGTGCCG
      ACTTACCGCT TACCGCGAAA CGGACCAAAG GCCGTGGTCT TCGCCACGGC
                lacZ
      ~~~~~
                Bsu36I
                ~~~~~
      E   S   W   L   E   C   D   L   P   E   A   D   T   V   V   V   P   .
2601   GAAAGCTGGC TGGAGTGCGA TCTTCCTGAG GCCGATACTG TCGTCGTCCC
      CTTTCGACCG ACCTCACGCT AGAAGGACTC CGGCTATGAC AGCAGCAGGG
                lacZ
      ~~~~~
      .   S   N   W   Q   M   H   G   Y   D   A   P   I   Y   T   N   V   T   .
2651   CTCAAAGTGG CAGATGCACG GTTACGATGC GCCCATCTAC ACCAACGTAA
      GAGTTTGACC GTCTACGTGC CAATGCTACG CGGGTAGATG TGGTTGCATT
                lacZ
      ~~~~~
      .   Y   P   I   T   V   N   P   P   F   V   P   T   E   N   P   T
2701   CCTATCCCAT TACGGTCAAT CCGCCGTTTG TTCCACGGA GAATCCGACG
      GGATAGGGTA ATGCCAGTTA GCGGCAAAC AAGGGTGCCT CTTAGGCTGC
                lacZ
      ~~~~~
      G   C   Y   S   L   T   F   N   V   D   E   S   W   L   Q   E   G   .
2751   GGTTGTTACT CGCTCACATT TAATGTTGAT GAAAGCTGGC TACAGGAAGG
      CCAACAATGA GCGAGTGTA ATTACAATA CTTTCGACCG ATGTCCTTCC
                lacZ
      ~~~~~
      .   Q   T   R   I   I   F   D   G   V   N   S   A   F   H   L   W   C   .
2801   CCAGACGCGA ATTATTTTTG ATGGCGTTAA CTCGGCGTTT CATCTGTGGT
      GGTCTGCGCT TAATAAAAAC TACCGCAATT GAGCCGCAA GTAGACACCA
                lacZ
      ~~~~~
      .   N   G   R   W   V   G   Y   G   Q   D   S   R   L   P   S   E
2851   GCAACGGGCG CTGGGTCGGT TACGGCCAGG ACAGTCGTTT GCCGTCTGAA
      CGTTGCCCGC GACCCAGCCA ATGCCGGTCC TGTCAGCAA CGGCAGACTT
                lacZ
      ~~~~~
      F   D   L   S   A   F   L   R   A   G   E   N   R   L   A   V   M   .
2901   TTTGACCTGA GCGCATTTTT ACGCGCCGGA GAAAACCGCC TCGCGGTGAT
      AAAGTGGACT CGCGTAAAAA TGC GCGGCCT CTTTGGCGG AGCGCCACTA
                lacZ
      ~~~~~
      .   V   L   R   W   S   D   G   S   Y   L   E   D   Q   D   M   W   R   .

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

2951  GGTGCTGCGT TGGAGTGACG GCAGTTATCT GGAAGATCAG GATATGTGGC
      CCACGACGCA ACCTCACTGC CGTCAATAGA CCTTCTAGTC CTATACACCG
                lacZ
      ~~~~~
      · M S G I F R D V S L L H K P T T
3001  GGATGAGCGG CATTTTCCGT GACGTCTCGT TGCTGCATAA ACCGACTACA
      CCTACTCGCC GTAAAAGGCA CTGCAGAGCA ACGACGTATT TGGCTGATGT
                lacZ
      ~~~~~
      Q I S D F H V A T R F N D D F S R ·
3051  CAAATCAGCG ATTTCCATGT TGCCACTCGC TTTAATGATG ATTTCAGCCG
      GTTTAGTCGC TAAAGGTACA ACGGTGAGCG AAATTACTAC TAAAGTCGGC
                lacZ
      ~~~~~
      · A V L E A E V Q M C G E L R D Y L ·
3101  CGCTGTACTG GAGGCTGAAG TTCAGATGTG CGGCGAGTTG CGTGACTACC
      GCGACATGAC CTCCGACTTC AAGTCTACAC GCCGCTCAAC GCACTGATGG
                lacZ
      ~~~~~
      · R V T V S L W Q G E T Q V A S G
3151  TACGGGTAAC AGTTTCTTTA TGGCAGGGTG AAACGCAGGT CGCCAGCGGC
      ATGCCCATTTG TCAAAGAAAT ACCGTCCAC TTTGCGTCCA GCGGTCGCCG
                lacZ
      ~~~~~
      T A P F G G E I I D E R G G Y A D ·
3201  ACCGCGCCTT TCGGCGGTGA AATTATCGAT GAGCGTGGTG GTTATGCCGA
      TGGCGCGGAA AGCCGCCACT TTAATAGCTA CTCGCACCAC CAATACGGCT
                lacZ
      ~~~~~
      · R V T L R L N V E N P K L W S A E ·
3251  TCGCGTCACA CTACGTCTGA ACGTCGAAAA CCCGAAACTG TGGAGCGCCG
      AGCGCAGTGT GATGCAGACT TGCAGCTTTT GGGCTTTGAC ACCTCGCGGC
                lacZ
      ~~~~~
      · I P N L Y R A V V E L H T A D G
3301  AAATCCCGAA TCTCTATCGT GCGGTGGTTG AACTGCACAC CGCCGACGGC
      TTTAGGGCTT AGAGATAGCA CGCCACCAAC TTGACGTGTG GCGGCTGCCG
                lacZ
      ~~~~~
      T L I E A E A C D V G F R E V R I ·
3351  ACGCTGATTG AAGCAGAAGC CTGCGATGTC GGTTTCCGCG AGGTGCGGAT
      TGCGACTAAC TTCGTCTTCG GACGCTACAG CCAAAGGCGC TCCACGCCTA
                lacZ
      ~~~~~
      · E N G L L L L N G K P L L I R G V ·

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

3401  TGAAAATGGT CTGCTGCTGC TGAACGGCAA GCCGTTGCTG ATTCGAGGCG
      ACTTTTACCA GACGACGACG ACTTGCCGTT CGGCAACGAC TAAGCTCCGC
      lacZ
      ~~~~~
      · N R H E H H P L H G Q V M D E Q
3451  TTAACCGTCA CGAGCATCAT CCTCTGCATG GTCAGGTCAT GGATGAGCAG
      AATTGGCAGT GCTCGTAGTA GGAGACGTAC CAGTCCAGTA CCTACTCGTC
      lacZ
      ~~~~~
      T M V Q D I L L M K Q N N F N A V ·
3501  ACGATGGTGC AGGATATCCT GCTGATGAAG CAGAACAAC TTAACGCCGT
      TGCTACCACG TCCTATAGGA CGACTACTTC GTCTTGTTGA AATTGCGGCA
      lacZ
      ~~~~~
      · R C S H Y P N H P L W Y T L C D R ·
3551  GCGCTGTTCG CATTATCCGA ACCATCCGCT GTGGTACACG CTGTGCGACC
      CGCGACAAGC GTAATAGGCT TGGTAGGCGA CACCATGTGC GACACGCTGG
      lacZ
      ~~~~~
      · Y G L Y V V D E A N I E T H G M
3601  GCTACGGCCT GTATGTGGTG GATGAAGCCA ATATTGAAAC CCACGGCATG
      CGATGCCGGA CATAACCAC CTACTTCGGT TATAACTTTG GGTGCCGTAC
      lacZ
      ~~~~~
      V P M N R L T D D P R W L P A M S ·
3651  GTGCCAATGA ATCGTCTGAC CGATGATCCG CGCTGGCTAC CGGCGATGAG
      CACGGTTACT TAGCAGACTG GCTACTAGGC GCGACCGATG GCCGCTACTC
      lacZ
      ~~~~~
      · E R V T R M V Q R D R N H P S V I ·
3701  CGAACGCGTA ACGCGAATGG TGCAGCGCGA TCGTAATCAC CCGAGTGTGA
      GCTTGCGCAT TGCGCTTACC ACGTCGCGCT AGCATTAGTG GGCTCACACT
      lacZ
      ~~~~~
      · I W S L G N E S G H G A N H D A
3751  TCATCTGGTC GCTGGGGAAT GAATCAGGCC ACGGCGCTAA TCACGACGCG
      AGTAGACCAG CGACCCCTTA CTTAGTCCGG TGCCGCGATT AGTGCTGCGC
      lacZ
      ~~~~~
      L Y R W I K S V D P S R P V Q Y E ·
3801  CTGTATCGCT GGATCAAATC TGTCGATCCT TCCCGCCCGG TGCAGTATGA
      GACATAGCGA CCTAGTTTAG ACAGCTAGGA AGGGCGGGCC ACGTCATACT
      lacZ
      ~~~~~
      · G G G A D T T A T D I I C P M Y A ·

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

3851  AGGCGGCGGA  GCCGACACCA  CGGCCACCGA  TATTATTTGC  CCGATGTACG
      TCCGCCGCCT  CGGCTGTGGT  GCCGGTGGCT  ATAATAAACG  GGCTACATGC
                        lacZ
      ~~~~~
      ·  R  V  D    E  D  Q    P  F  P  A    V  P  K    W  S  I
3901  CGCGCGTGGA  TGAAGACCAG  CCCTTCCCCG  CTGTGCCGAA  ATGGTCCATC
      GCGCGCACCT  ACTTCTGGTC  GGAAGGGGCC  GACACGGCTT  TACCAGGTAG
                        lacZ
      ~~~~~
      K  K  W  L    S  L  P    G  E  T    R  P  L  I    L  C  E  ·
3951  AAAAAATGGC  TTTCGCTACC  TGGAGAGACG  CGCCCGCTGA  TCCTTTGCGA
      TTTTTTACCG  AAAGCGATGG  ACCTCTCTGC  GCGGGCGACT  AGGAAACGCT
                        lacZ
      ~~~~~
      ·  Y  A  H    A  M  G  N    S  L  G    G  F  A    K  Y  W  Q  ·
4001  ATACGCCAC  GCGATGGGTA  ACAGTCTTGG  CGGTTTCGCT  AAATACTGGC
      TATGCGGGTG  CGCTACCCAT  TGTCAAGAAC  GCCAAAGCGA  TTTATGACCG
                        lacZ
      ~~~~~
      ·  A  F  R    Q  Y  P    R  L  Q  G    G  F  V    W  D  W
4051  AGGCGTTTCG  TCAGTATCCC  CGTTTACAGG  GCGGCTTCGT  CTGGGACTGG
      TCCGCAAAGC  AGTCATAGGG  GCAAATGTCC  CGCCGAAGCA  GACCCTGACC
                        lacZ
      ~~~~~
      V  D  Q  S    L  I  K    Y  D  E    N  G  N  P    W  S  A  ·
4101  GTGGATCAGT  CGCTGATTAA  ATATGATGAA  AACGGCAACC  CGTGGTCGGC
      CACCTAGTCA  GCGACTAATT  TATACTACTT  TTGCCGTTGG  GCACCAGCCG
                        lacZ
      ~~~~~
      ·  Y  G  G    D  F  G  D    T  P  N    D  R  Q    F  C  M  N  ·
4151  TTACGGCGGT  GATTTTGGCG  ATACGCCGAA  CGATCGCCAG  TTCTGTATGA
      AATGCCGCCA  CTAAAACCGC  TATGCGGCTT  GCTAGCGGTC  AAGACATACT
                        lacZ
      ~~~~~
      ·  G  L  V    F  A  D    R  T  P  H    P  A  L    T  E  A
4201  ACGGTCTGGT  CTTTGCCGAC  CGCACGCCGC  ATCCAGCGCT  GACGGAAGCA
      TGCCAGACCA  GAAACGGCTG  GCGTGCGGCG  TAGGTCGCGA  CTGCCTTCGT
                        lacZ
      ~~~~~
      K  H  Q  Q    Q  F  F    Q  F  R    L  S  G  Q    T  I  E  ·
4251  AAACACCAGC  AGCAGTTTTT  CCAGTTCCGT  TTATCCGGGC  AAACCATCGA
      TTTGTGGTCG  TCGTCAAAAA  GGTCAAGGCA  AATAGGCCCG  TTTGGTAGCT
                        lacZ
      ~~~~~
      ·  V  T  S    E  Y  L  F    R  H  S    D  N  E    L  L  H  W  ·

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

4301  AGTGACCAGC GAATACCTGT TCCGTCATAG CGATAACGAG CTCCTGCACT
      TCACTGGTCG CTTATGGACA AGGCAGTATC GCTATTGCTC GAGGACGTGA
              lacZ
      ~~~~~
      · M V A L D G K P L A S G E V P L
4351  GGATGGTGGC GCTGGATGGT AAGCCGCTGG CAAGCGGTGA AGTGCCTCTG
      CCTACCACCG CGACCTACCA TTCGGCGACC GTTCGCCACT TCACGGAGAC
              lacZ
      ~~~~~
      D V A P Q G K Q L I E L P E L P Q ·
4401  GATGTCGCTC CACAAGGTAA ACAGTTGATT GAACTGCCTG AACTACCGCA
      CTACAGCGAG GTGTTCCATT TGTCAACTAA CTTGACGGAC TTGATGGCGT
              lacZ
      ~~~~~
      · P E S A G Q L W L T V R V V Q P N ·
4451  GCCGGAGAGC GCCGGGCAAC TCTGGCTCAC AGTACGCGTA GTGCAACCGA
      CGGCCTCTCG CGGCCCGTTG AGACCGAGTG TCATGCGCAT CACGTTGGCT
              lacZ
      ~~~~~
      · A T A W S E A G H I S A W Q Q W
4501  ACGCGACCGC ATGGTCAGAA GCCGGGCACA TCAGCGCCTG GCAGCAGTGG
      TGCGCTGGCG TACCAGTCTT CGGCCCGTGT AGTCGCGGAC CGTCGTCACC
              lacZ
      ~~~~~
      R L A E N L S V T L P A A S H A I ·
4551  CGTCTGGCGG AAAACCTCAG TGTGACGCTC CCCGCCGCGT CCCACGCCAT
      GCAGACCGCC TTTTGGAGTC ACACTGCGAG GGGCGGCGCA GGGTGCGGTA
              lacZ
      ~~~~~
      · P H L T T S E M D F C I E L G N K ·
4601  CCCGCATCTG ACCACCAGCG AAATGGATT TTTGATCGAG CTGGGTAATA
      GGGCGTAGAC TGGTGGTCGC TTTACCTAAA AACGTAGCTC GACCCATTAT
              lacZ
      ~~~~~
      · R W Q F N R Q S G F L S Q M W I
4651  AGCGTTGGCA ATTTAACCGC CAGTCAGGCT TTCTTTCACA GATGTGGATT
      TCGCAACCGT TAAATTGGCG GTCAGTCCGA AAGAAAGTGT CTACACCTAA
              lacZ
      ~~~~~
      G D K K Q L L T P L R D Q F T R A ·
4701  GGCGATAAAA AACAACTGCT GACGCCGCTG CGCGATCAGT TCACCCGTGC
      CCGCTATTTT TTGTTGACGA CTGCGGCGAC GCGCTAGTCA AGTGGGCACG
              lacZ
      ~~~~~
      · P L D N D I G V S E A T R I D P N ·

```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```
4751  ACCGCTGGAT AACGACATTG GCGTAAGTGA AGCGACCCGC ATTGACCCTA
      TGGCGACCTA TTGCTGTAAC CGCATTCACT TCGCTGGGCG TAACTGGGAT
              lacZ
      ~~~~~
      ·  A  W  V  E  R  W  K  A  A  G  H  Y  Q  A  E  A
4801  ACGCCTGGGT CGAACGCTGG AAGGCGGCGG GCCATTACCA GGCCGAAGCA
      TGCGGACCCA GCTTGC GACC TTCCGCGGCC CGGTAATGGT CCGGCTTCGT
              lacZ
      ~~~~~
      A  L  L  Q  C  T  A  D  T  L  A  D  A  V  L  I  T
4851  GCGTTGTTGC AGTGCACGGC AGATACACTT GCTGATGCGG TGCTGATTAC
      CGCAACAACG TCACGTGCCG TCTATGTGAA CGACTACGCC ACGACTAATG
              lacZ
      ~~~~~
      ·  T  A  H  A  W  Q  H  Q  G  K  T  L  F  I  S  R  K
4901  GACCGCTCAC GCGTGGCAGC ATCAGGGGAA AACCTTATTT ATCAGCCGGA
      CTGGCGAGTG CGCACCGTCG TAGTCCCCTT TTGGAATAAA TAGTCGGCCT
              lacZ
      ~~~~~
      ·  T  Y  R  I  D  G  S  G  Q  M  A  I  T  V  D  V
4951  AAACCTACCG GATTGATGGT AGTGGTCAAA TGGCGATTAC CGTTGATGTT
      TTTGGATGGC CTAACCTACCA TCACCAGTTT ACCGCTAATG GCAACTACAA
              lacZ
      ~~~~~
      E  V  A  S  D  T  P  H  P  A  R  I  G  L  N  C  Q
5001  GAAGTGGCGA GCGATACACC GCATCCGGCG CGGATTGGCC TGAACCTGCA
      CTTCACCGCT CGCTATGTGG CGTAGGCCGC GCCTAACCGG ACTTGACGGT
              lacZ
      ~~~~~
      ·  L  A  Q  V  A  E  R  V  N  W  L  G  L  G  P  Q  E
5051  GCTGGCGCAG GTAGCAGAGC GGGTAAACTG GCTCGGATTA GGGCCGCAAG
      CGACCGCGTC CATCGTCTCG CCCATTGAC CGAGCCTAAT CCCGGCGTTC
              lacZ
      ~~~~~
      ·  N  Y  P  D  R  L  T  A  A  C  F  D  R  W  D  L
5101  AAAACTATCC CGACCGCCTT ACTGCCGCCT GTTTTGACCG CTGGGATCTG
      TTTTGATAGG GCTGGCGGAA TGACGGCGGA CAAACTGGC GACCCTAGAC
              lacZ
      ~~~~~
      P  L  S  D  M  Y  T  P  Y  V  F  P  S  E  N  G  L
5151  CCATTGTCAG ACATGTATAC CCCGTACGTC TTCCCGAGCG AAAACGGTCT
      GGTAACAGTC TGTACATATG GGGCATGCAG AAGGGCTCGC TTTTGCCAGA
              lacZ
      ~~~~~
      ·  R  C  G  T  R  E  L  N  Y  G  P  H  Q  W  R  G  D
```

Table 13 (continued) Nucleotide sequence of the V5-His DEST cassette (SEQ ID NO: 90).

```

5201  GCGCTGCGGG  ACGCGCGAAT  TGAATTATGG  CCCACACCAG  TGGCGCGGGC
      CGCGACGCCC  TGCGCGCTTA  ACTTAATACC  GGGTGTGGTC  ACCGCGCCGC
                        lacZ
      ~~~~~
      ·  F  Q  F    N  I  S    R  Y  S  Q    Q  Q  L    M  E  T
5251  ACTTCCAGTT  CAACATCAGC  CGCTACAGTC  AACAGCAACT  GATGGAAACC
      TGAAGGTCAA  GTTGTAGTCG  GCGATGTCAG  TTGTCGTTGA  CTACCTTTGG
                        lacZ
      ~~~~~
      S  H  R  H    L  L  H    A  E  E    G  T  W  L    N  I  D
5301  AGCCATCGCC  ATCTGCTGCA  CGCGGAAGAA  GGCACATGGC  TGAATATCGA
      TCGGTAGCGG  TAGACGACGT  GCGCCTTCTT  CCGTGTACCG  ACTTATAGCT
                        lacZ
      ~~~~~
      ·  G  F  H    M  G  I  G    G  D  D    S  W  S    P  S  V  S
5351  CGGTTTCCAT  ATGGGGATTG  GTGGCGACGA  CTCCTGGAGC  CCGTCAGTAT
      GCCAAAGGTA  TACCCCTAAC  CACCGCTGCT  GAGGACCTCG  GGCAGTCATA
                        lacZ
      ~~~~~
      ·  A  E  F    Q  L  S    A  G  R  Y    H  Y  Q    L  V  W
5401  CGGCGGAATT  CCAGCTGAGC  GCCGGTCGCT  ACCATTACCA  GTTGGTCTGG
      GCCGCCTTAA  GGTCGACTCG  CGGCCAGCGA  TGGTAATGGT  CAACCAGACC
      lacZ                               AttR2
      ~~~~~
      C  Q  K
5451  TGTCAAAAAT  AATGACTGCA  GGTGACCAT  AGTGA CTGGA  TATGTTGTGT
      ACAGTTTTTA  TTAGTGACGT  CCAGCTGGTA  TCACTGACCT  ATACAACACA
                        AttR2
      ~~~~~
5501  TTTACAGTAT  TATGTAGTCT  GTTTTTTATG  CAAAATCTAA  TTTAATATAT
      AAATGTCATA  ATACATCAGA  CAAAAAATAC  GTTTTAGATT  AAATTATATA
                        AttR2
      ~~~~~
5551  TGATATTTAT  ATCATTTTAC  GTTCTCGTT  CAGCTTTCTT  GTACAAAGTG
      ACTATAAATA  TAGTAAAATG  CAAAGAGCAA  GTCGAAAGAA  CATGTTTCAC
      AttR2                               V5/His
      ~~~~~
                        G  K  P    I  P  N  P    L  L  G
5601  GTGAGAATGA  ATGAAGATCT  GGGGAAGCCT  ATCCCTAACC  CTCTCCTCGG
      CACTCTTACT  TACTTCTAGA  CCCCTTCGGA  TAGGGATTGG  GAGAGGAGCC
                        V5/His
      ~~~~~
      ·  L  D  S    T  R  T  G    H  H  H    H  H  H
5651  TCTCGATTCT  ACGCGTACCG  GTCATCATCA  CCATCACCAT  TGA
      AGAGCTAAGA  TGCGCATGGC  CAGTAGTAGT  GGTAGTGGTA  ACT

```


Please amend Table 14 on pages 416-428 as follows:

Table 14: Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
ph promoter
~~~~~
1  ATAAGTATTT TACTGTTTTC GTAACAGTTT TGTAATAAAA AAACCTATAA
   TATTCATAAA ATGACAAAAG CATTGTCAAA ACATTATTTT TTTGGATATT
51  ATATTCCGGA TTATTCATAC CGTCCCACCA TCGGGCGCGG ATCCTATAAA
   TATAAGGCCT AATAAGTATG GCAGGGTGGT AGCCCGCGCC TAGGATATTT
                                   Melittin signal
                                   ~~~~~
      M  K  F  L  V  N  V  A  L  V  F  M  V  V  Y  I  S  .
101  TATGAAATTC TTAGTCAACG TTGCCCTTGT TTTTATGGTC GTATACATTT
   ATACTTTAAG AATCAGTTGC AACGGGAACA AAAATACCAG CATATGTAAA
   Melittin signal                                     attR1
   ~~~~~
   .  Y  I  Y  A
151  CTTACATCTA TGCGGCATGG TCGAATCAAA CAAGTTTGTA CAAAAAAGCT
   GAATGTAGAT ACGCCGTACC AGCTTAGTTT GTTCAAACAT GTTTTTTCGA
                                   attR1
   ~~~~~
201  GAACGAGAAA CGTAAAATGA TATAAATATC AATATATTAA ATTAGATTTT
   CTTGCTCTTT GCATTTTACT ATATTTATAG TTATATAATT TAATCTAAAA
                                   attR1
   ~~~~~
251  GCATAAAAAA CAGACTACAT AATACTGTAA AACACAACAT ATCCAGTCAC
   CGTATTTTTT GTCTGATGTA TTATGACATT TTGTGTTGTA TAGGTCAGTG
301  TATGGCGGCC GCTCCCTAAC CCACGGGGCC CGTGGCTATG GCAGGGCTTG
   ATACCGCCGG CGAGGGATTG GGTGCCCCGG GCACCGATAC CGTCCCGAAC
351  CCGCCCCGAC GTTGGCTGCG AGCCCTGGGC CTTACCCGA ACTTGGGGGT
   GGCGGGGCTG CAACCGACGC TCGGGACCCG GAAGTGGGCT TGAACCCCA
401  TGGGGTGGGG AAAAGGAAGA AACGCGGGCG TATTGGTCCC AATGGGGTCT
   ACCCCACCCC TTTTCCTTCT TTGCGCCCGC ATAACCAGGG TTACCCAGGA
451  CCGTGGGGTA TCGACAGAGT GCCAGCCCTG GGACCGAACC CCGCGTTTAT
   GCCACCCCAT AGCTGTCTCA CGGTCGGGAC CCTGGCTTGG GGCGCAAATA
501  GAACAAACGA CCCAACACCC GTGCGTTTTA TTCTGTCTTT TTATTGCCGT
   CTTGTTTGCT GGGTTGTGGG CACGCAAAAT AAGACAGAAA AATAACGGCA
551  CATAGCGCGG GTTCCTTCCG GTATTGTCTC CTTCCGTGTT TCAGTTAGCC
   GTATCGCGCC CAAGGAAGGC CATAACAGAG GAAGGCACAA AGTCAATCGG
                                   ~~~
                                   tk gene
                                   N  A  E  .
601  TCCCCCATCT CCCGGGCAAA CGTGCGCGCC AGGTCGCAGA TCGTCGGTAT
   AGGGGGTAGA GGGCCCGTTT GCACGCGCGG TCCAGCGTCT AGCAGCCATA
   ~~~~~
                                   tk gene
.. G  M  E  R  A  F  T  R  A  L  D  C  I  T  P  I
```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

651  GGAGCCTGGG GTGGTGACGT GGGTCTGGAC CATCCCGGAG GTAAGTTGCA
    CCTCGGACCC CACCACTGCA CCCAGACCTG GTAGGGCCTC CATTCAACGT
    /
    ~~~~~
    tk gene
    S  G  P  T    T  V  H    T  Q  V    M  G  S  T    L  Q  L  .
701  GCAGGGCGTC CCGGCAGCCG GCGGGCGATT GGTCGTAATC CAGGATAAAG
    CGTCCCGCAG GGCCGTCGGC CGCCCGCTAA CCAGCATTAG GTCCTATTTC
    ~~~~~
    tk gene
    .  L  A  D    R  C  G  A    P  S  Q    D  Y  D    L  I  F  V  .
751  ACATGCATGG GACGGAGGCG TTTGGCCAAG ACGTCCAAAG CCCAGGCAAA
    TGTACGTACC CTGCCTCCGC AAACCGGTTT TGCAGGTTTC GGGTCCGTTT
    ~~~~~
    tk gene
    .. H  M  P    R  L  R    K  A  L  V    D  L  A    W  A  F
801  CACGTTATAC AGGTCGCCGT TGGGGGCCAG CAACTCGGGG GCCCGAAACA
    GTGCAATATG TCCAGCGGCA ACCCCCGGTC GTTGAGCCCC CGGGCTTTGT
    ~~~~~
    tk gene
    V  N  Y  L    D  G  N    P  A  L    L  E  P  A    R  F  L  .
851  GGGTAAATAA CGTGTCCCCG ATATGGGGTC GTGGGCCCCG GTTGCTCTGG
    CCCATTTATT GCACAGGGGC TATACCCAG CACCCGGGCG CAACGAGACC
    ~~~~~
    tk gene
    .  T  F  L    T  D  G  I    H  P  R    P  G  A    N  S  Q  P  .
901  GGCTCGGCAC CCTGGGGCGG CACGGCCGCC CCCGAAAGCT GTCCCCAATC
    CCGAGCCGTG GGACCCCGCC GTGCCGGCGG GGGCTTTTCA CAGGGGTTAG
    ~~~~~
    tk gene
    .. E  A  G    Q  P  P    V  A  A  G    S  L  Q    G  W  D
951  CTCCCGCCAC GACCCGCCGC CCTGCAGATA CCGCACCGTA TTGGCAAGCA
    GAGGGCGGTG CTGGGCGGCG GGACGTCTAT GGCGTGGCAT AACCGTTCGT
    ~~~~~
    tk gene
    E  R  W  S    G  G  G    Q  L  Y    R  V  T  N    A  L  L  .
1001  GCCCATAAAC GCGGCGAATC GCGGCCAGCA TAGCCAGGTC AAGCCGCTCG
    CGGGTATTTG CGCCGCTTAG CGCCGGTCGT ATCGGTCCAG TTCGGCGAGC
    ~~~~~
    tk gene
    .  G  Y  V    R  R  I  A    A  L  M    A  L  D    L  R  E  G  .
1051  CCGGGGCGCT GGC GTTTTGGC CAGGCGGTCG ATGTGTCTGT CCTCCGGAAG
    GGCCCCGCGA CCGCAAACCG GTCCGCCAGC TACACAGACA GGAGGCCTTC
    ~~~~~
    tk gene
    .. P  R  Q    R  K  A    L  R  D  I    H  R  D    E  P  L

```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

1101  GGCCCCCAAC ACGATGTTTG TGCCGGGCAA GGTCGGCGGG ATGAGGGCCA
      CCGGGGGTTG TGCTACAAAC ACGGCCCGTT CCAGCCGCCC TACTCCCGGT
      ~~~~~
                        tk gene
      A  G  L  V  I  N  T  G  P  L  T  P  P  I  L  A  V  .
1151  CGAACGCCAG CACGGCCTGG GGGGTCATGC TGCCCATAAG GTATCGCGCG
      GCTTGCGGTC GTGCCGGACC CCCCAGTACG ACGGGTATTC CATAGCGCGC
      ~~~~~
                        tk gene
      .  F  A  L  V  A  Q  P  T  M  S  G  M  L  Y  R  A  A  .
1201  GCCGGGTAGC ACAGGAGGGC GGCGATGGGA TGGCGGTCGA AGATGAGGGT
      CGGCCCATCG TGTCTCCCG CCGCTACCCT ACCGCCAGCT TCTACTCCCA
      ~~~~~
                        tk gene
      . . P  Y  C  L  L  A  A  I  P  H  R  D  F  I  L  T
1251  GAGGGCCGGG GGC GGCGGCAT GTGAGCTCCC AGCCTCCCCC CCGATATGAG
      CTCCCGGCCC CCGCCCCGTA CACTCGAGGG TCGGAGGGGG GGCTATACTC
      ~~~~~
                        tk gene
      L  A  P  P  P  A  H  S  S  G  A  E  G  G  I  H  P  .
1301  GAGCCAGAAC GGCGTCGGTC ACGGCATAAG GCATGCCCAT TGTTATCTGG
      CTCGGTCTTG CCGCAGCCAG TGCCGTATTC CGTACGGGTA ACAATAGACC
      ~~~~~
                        tk gene
      .  A  L  V  A  D  T  V  A  Y  P  M  G  M  T  I  Q  A  .
1351  GCGCTTGTC A TTACCACCGC CGCGTCCCCG GCCGATATCT CACCCTGGTC
      CGCGAACAGT AATGGTGGCG GCGCAGGGGC CGGCTATAGA GTGGGACCAG
      ~~~~~
                        tk gene
      . . S  T  M  V  V  A  A  D  G  A  S  I  E  G  Q  D
1401  GAGGCGGTGT TGTGTGGTGT AGATGTTCGC GATTGTCTCG GAAGCCCCCA
      CTCCGCCACA ACACACCACA TCTACAAGCG CTAACAGAGC CTTGCGGGGT
      ~~~~~
                        tk gene
      L  R  H  Q  T  T  Y  I  N  A  I  T  E  S  A  G  L  .
1451  ACACCCGCCA GTAAGTCATC GGCTCGGGTA CGTAGACGAT ATCGTCGCGC
      TGTGGGCGGT CATTAGTAG CCGAGCCCAT GCATCTGCTA TAGCAGCGCG
      ~~~~~
                        tk gene
      .  V  R  W  Y  T  M  P  E  P  V  Y  V  I  D  D  R  S  .
1501  GAACCCAGGG CCACCAGCAG TTGCGTGGTG GTGGTTTTCC CCATCCCGTG
      CTTGGGTCCC GGTGGTCGTC AACGCACCAC CACCAAAAGG GGTAGGGCAC
      ~~~~~
                        tk gene
      . . G  L  A  V  L  L  Q  T  T  T  T  K  G  M  G  H

```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

1551  GGGACCGTCT ATATAAACCC GCAGTAGCGT GGGCATT TTC TGCTCCAGGC
      CCCTGGCAGA TATATTTGGG CGTCATCGCA CCCGTAAAAG ACGAGGTCCG
      ~~~~~
                tk gene
      P G D I Y V R L L T P M K Q E L R .
1601  GGACTTCCGT GGCTTTTTGT TGCCGGCGAG GCGCAACGC CGTACGTCGG
      CCTGAAGGCA CCGAAAACA ACGGCCGCTC CCGCGTTGCG GCATGCAGCC
      ~~~~~
                tk gene
      . V E T A K Q Q R R P R L A T R R N .
1651  TTGTTATGGC CGCGAGAACG CGCAGCCTGG TCGAACGCAG ACGCGTGTG
      AACAAATACG GCGCTCTTGC GCGTCGGACC AGCTTGCGTC TGCGCACAAC
      ~~~~~
                tk gene
      .. N H G R S R A A Q D F A S A H Q
1701  ATGGCAGGGG TACGAAGCCA TAGATCCCGT TATCAATTAC TTATACTATC
      TACCGTCCCC ATGCTTCGGT ATCTAGGGCA ATAGTTAATG AATATGATAG
      ~~~~~
                tk gene
      pr
      H C P Y S A M
1751  CGGCGCGCAA GCGAGCGTGT GCGCCGGAGC ACAATTGATA CTGATTTACG
      GCCGCGCGTT CGCTCGCACA CGCGGCCTCG TGTTAACTAT GACTAAATGC
      ~~~~~
                ie-0 pr
1801  AGTTGGGCAA ACGGGCTTTA TATAGCCTGT CCCCTCCACA GCCCTAGTGC
      TCAACCCGTT TGCCCGAAAT ATATCGGACA GGGGAGGTGT CGGGATCACG
      ~~~~~
                ie-0 pr
1851  CGTGCGCAAA GTGCCTACGT GACCAGGCTC TCCTACGCAT ATACAATCTT
      GCACGCGTTT CACGGATGCA CTGGTCCGAG AGGATGCGTA TATGTTAGAA
      ~~~~~
                ie-0 pr
1901  ATCTCTATAG ATAAGGTTTC CATATATAAA GCCTCTCGAT GGCTGAACGT
      TAGAGATATC TATTCCAAAG GTATATATTT CGGAGAGCTA CCGACTTGCA
      ~~~~~
                ie-0 pr
1951  GCACAGTATC GTGTTGATTT CTGAGTGCTA ACTAACAGTT ACAATGAACC
      CGTGTCATAG CACAATAAAA GACTCACGAT TGATTGTCAA TGTTACTTGG
      ~~~~~
                ie-0 pr
2001  GTTTTTTTTCG AGAGAATAAC ATTTTGTACG CGCCAAGGAC CGGGGGCAAG
      CAAAAAAGC TCTCTTATTG TAAAAACTGC GCGGTTCTTG GCCCCCGTTC
      ~~~~~
                ie-0 pr

```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

2051  GGTCGTGCCA AATCTTTGCC AGCGCCTGCC GCCAACTCGC CGCCGTCGCC
      CCAGCACGGT TTAGAAACGG TCGCGGACGG CGGTTGAGCG GCGGCAGCGG
      ~~~~~
                        ie-0 pr
2101  TGTTCGTCCG CCGCCAAAAT CTAACATCAA ACCACCTACG CGCATCTCTC
      ACAAGCAGGC GCGGGTTTTA GATTGTAGTT TGGTGGATGC GCGTAGAGAG
      ~~~~~
                        ie-0 pr
2151  CGCCTAAACA GCCTATGTGC ACCTCTCCGG CCAAGCCGTT GGAGCACAGC
      GCGGATTTGT CGGATACACG TGGAGAGGCC GGTTTCGGCAA CCTCGTGTCTG
      ~~~~~
                        ie-0 pr
2201  AGCATTGTAA GTAAAAAACC AGTCGTCAAC AGAAAAGATG GATATTTTGT
      TCGTAACATT CATTTTTTGG TCAGCAGTTG TCTTTTCTAC CTATAAAACA
      ~~~~~
                        ie-0 pr
2251  GCCGCCCCGAG TTTGGGAACA AGTTTGAAGG TTTGCCCGCG TACAGCGACA
      CGGCGGGCTC AAACCCTTGT TCAAACCTCC AAACGGGCGC ATGTCGCTGT
      ~~~~~
                        ie-0 pr
                                                    p10 pr
2301  AACTGGATTT CAAACAAGAG CGCGATCTAC GTACCTGCAG GCCCGGGCTC
      TTGACCTAAA GTTTGTTCTC GCGCTAGATG CATGGACGTC CGGGCCCCGAG
      ~~~~~
                        ie-0 pr
                        p10 pr
2351  AACCCAACAC AATATATTAT AGTTAAATAA GAATTATTAT CAAATCATTT
      TTGGGTGTG TTATATAATA TCAATTTATT CTTAATAATA GTTTAGTAAA
                        p10 pr
2401  GTATATTAAT TAAAATACTA TACTGTAAAT TACATTTTAT TTACAATTCA
      CATATAATTA ATTTTATGAT ATGACATTTA ATGTAAAATA AATGTTAAGT
                        lacZ
      ~~~~~
      M   T   M   I   T   D   S   L   A   V   V   L   Q   R   R
2451  CTCTAGAATG ACCATGATTA CGGATTCAC TGGCCGTCGTT TTACAACGTC
      GAGATCTTAC TGGTACTAAT GCCTAAGTGA CCGGCAGCAA AATGTTGCAG
                        lacZ
      ~~~~~
      ·   D   W   E   N   P   G   V   T   Q   L   N   R   L   A   A   H

```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

2501  GTGACTGGGA AAACCCTGGC GTTACCCAAC TTAATCGCCT TGCAGCACAT
      CACTGACCCT TTTGGGACCG CAATGGGTTG AATTAGCGGA ACGTCGTGTA
              lacZ
      ~~~~~
      P P F A S W R N S E E A R T D R P
2551  CCCCTTTTCG CCAGCTGGCG TAATAGCGAA GAGGCCCGCA CCGATCGCCC
      GGGGAAAGC GGTCGACCGC ATTATCGCTT CTCCGGGCGT GGCTAGCGGG
              lacZ
      ~~~~~
      S Q Q L R S L N G E W R F A W F P
2601  TTCCCAACAG TTGCGCAGCC TGAATGGCGA ATGGCGCTTT GCCTGGTTTC
      AAGGGTTGTC AACGCGTCGG ACTTACCGCT TACCGCGAAA CGGACCAAAG
              lacZ
      ~~~~~
                                          Bsu36I
      ~~~~~
      A P E A V P E S W L E C D L P E
2651  CGGCACCAGA AGCGGTGCCG GAAAGCTGGC TGGAGTGCGA TCTTCCTGAG
      GCCGTGGTCT TCGCCACGGC CTTTCGACCG ACCTCACGCT AGAAGGACTC
              lacZ
      ~~~~~
      Bsu36I
      ~
      A D T V V V P S N W Q M H G Y D A
2701  GCCGATACTG TCGTCGTCCC CTCAAACCTGG CAGATGCACG GTTACGATGC
      CGGCTATGAC AGCAGCAGGG GAGTTTGACC GTCTACGTGC CAATGCTACG
              lacZ
      ~~~~~
      P I Y T N V T Y P I T V N P P F V
2751  GCCCATCTAC ACCAACGTAA CCTATCCCAT TACGGTCAAT CCGCCGTTTG
      CGGGTAGATG TGGTTGCATT GGATAGGGTA ATGCCAGTTA GGCGGCAAAC
              lacZ
      ~~~~~
      P T E N P T G C Y S L T F N V D
2801  TTCCCACGGA GAATCCGACG GGTGTTACT CGCTCACATT TAATGTTGAT
      AAGGGTGCCT CTTAGGCTGC CCAACAATGA GCGAGTGTA ATTACAATA
              lacZ
      ~~~~~
      E S W L Q E G Q T R I I F D G V N
2851  GAAAGCTGGC TACAGGAAGG CCAGACGCGA ATTATTTTTC ATGGCGTTAA
      CTTTCGACCG ATGTCCTTCC GGTCTGCGCT TAATAAAAAC TACCGCAATT
              lacZ
      ~~~~~
      S A F H L W C N G R W V G Y G Q D

```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

2901   CTCGGCGTTT CATCTGTGGT GCAACGGGCG CTGGGTCGGT TACGGCCAGG
      GAGCCGCAAA GTAGACACCA CGTTGCCCGC GACCCAGCCA ATGCCGGTCC
              lacZ
      ~~~~~
      ·   S   R   L   P   S   E   F   D   L   S   A   F   L   R   A   G
2951   ACAGTCGTTT GCCGTCTGAA TTTGACCTGA GCGCATTTTT ACGCGCCGGA
      TGTCAGCAAA CGGCAGACTT AAAGTGGACT CGCGTAAAAA TGC GCGGCCT
              lacZ
      ~~~~~
      E   N   R   L   A   V   M   V   L   R   W   S   D   G   S   Y   L   ·
3001   GAAAACCGCC TCGCGGTGAT GGTGCTGCGT TGGAGTGACG GCAGTTATCT
      CTTTTGGCGG AGCGCCACTA CCACGACGCA ACCTCACTGC CGTCAATAGA
              lacZ
      ~~~~~
      ·   E   D   Q   D   M   W   R   M   S   G   I   F   R   D   V   S   L   ·
3051   GGAAGATCAG GATATGTGGC GGATGAGCGG CATTTTCCGT GACGTCTCGT
      CCTTCTAGTC CTATACACCG CCTACTCGCC GTAAAAGGCA CTGCAGAGCA
              lacZ
      ~~~~~
      ·   L   H   K   P   T   T   Q   I   S   D   F   H   V   A   T   R
3101   TGCTGCATAA ACCGACTACA CAAATCAGCG ATTTCCATGT TGCCACTCGC
      ACGACGTATT TGGCTGATGT GTTTAGTCGC TAAAGGTACA ACGGTGAGCG
              lacZ
      ~~~~~
      F   N   D   D   F   S   R   A   V   L   E   A   E   V   Q   M   C   ·
3151   TTTAATGATG ATTTCAGCCG CGCTGTACTG GAGGCTGAAG TTCAGATGTG
      AAATTACTAC TAAAGTCGGC GCGACATGAC CTCCGACTTC AAGTCTACAC
              lacZ
      ~~~~~
      ·   G   E   L   R   D   Y   L   R   V   T   V   S   L   W   Q   G   E   ·
3201   CGGCGAGTTG CGTGACTACC TACGGGTAAC AGTTTCTTTA TGGCAGGGTG
      GCCGCTCAAC GCACTGATGG ATGCCCATTTG TCAAAGAAAT ACCGTCCCAC
              lacZ
      ~~~~~
      ·   T   Q   V   A   S   G   T   A   P   F   G   G   E   I   I   D
3251   AAACGCAGGT CGCCAGCGGC ACCGCGCCTT TCGGCGGTGA AATTATCGAT
      TTTGCGTCCA GCGGTCGCCG TGGCGCGGAA AGCCGCCACT TTAATAGCTA
              lacZ
      ~~~~~
      E   R   G   G   Y   A   D   R   V   T   L   R   L   N   V   E   N   ·
3301   GAGCGTGGTG GTTATGCCGA TCGCGTCACA CTACGTCTGA ACGTCGAAAA
      CTCGCACCAC CAATACGGCT AGCGCAGTGT GATGCAGACT TGCAGCTTTT
              lacZ
      ~~~~~
      ·   P   K   L   W   S   A   E   I   P   N   L   Y   R   A   V   V   E   ·

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Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

3351   CCCGAAACTG TGGAGCGCCG AAATCCCGAA TCTCTATCGT GCGGTGGTTG
      GGGCTTTGAC ACCTCGCGGC TTTAGGGCTT AGAGATAGCA CGCCACCAAC
              lacZ
      ~~~~~
      ·  L  H  T  A  D  G  T  L  I  E  A  E  A  C  D  V
3401   AACTGCACAC CGCCGACGGC ACGCTGATTG AAGCAGAAGC CTGCGATGTC
      TTGACGTGTG GCGGCTGCCG TGCGACTAAC TTCGTCTTCG GACGCTACAG
              lacZ
      ~~~~~
      G  F  R  E  V  R  I  E  N  G  L  L  L  L  N  G  K  ·
3451   GGTTTCCGCG AGGTGCGGAT TGAAATGGT CTGCTGCTGC TGAACGGCAA
      CCAAAGGCGC TCCACGCCTA ACTTTTACCA GACGACGACG ACTTGCCGTT
              lacZ
      ~~~~~
      ·  P  L  L  I  R  G  V  N  R  H  E  H  H  P  L  H  G  ·
3501   GCCGTTGCTG ATTCGAGGCG TTAACCGTCA CGAGCATCAT CCTCTGCATG
      CGGCAACGAC TAAGCTCCGC AATTGGCAGT GCTCGTAGTA GGAGACGTAC
              lacZ
      ~~~~~
      ·  Q  V  M  D  E  Q  T  M  V  Q  D  I  L  L  M  K
3551   GTCAGGTCAT GGATGAGCAG ACGATGGTGC AGGATATCCT GCTGATGAAG
      CAGTCCAGTA CCTACTCGTC TGCTACCACG TCCTATAGGA CGACTACTTC
              lacZ
      ~~~~~
      Q  N  N  F  N  A  V  R  C  S  H  Y  P  N  H  P  L  ·
3601   CAGAACAAC TTAACGCCGT GCGCTGTTCG CATTATCCGA ACCATCCGCT
      GTCTTGTTGA AATTGCGGCA CGCGACAAGC GTAATAGGCT TGGTAGGCGA
              lacZ
      ~~~~~
      ·  W  Y  T  L  C  D  R  Y  G  L  Y  V  V  D  E  A  N  ·
3651   GTGGTACACG CTGTGCGACC GCTACGGCCT GTATGTGGTG GATGAAGCCA
      CACCATGTGC GACACGCTGG CGATGCCGGA CATAACCAC CTACTTCGGT
              lacZ
      ~~~~~
      ·  I  E  T  H  G  M  V  P  M  N  R  L  T  D  D  P
3701   ATATTGAAAC CCACGGCATG GTGCCAATGA ATCGTCTGAC CGATGATCCG
      TATAACTTTG GGTGCCGTAC CACGGTTACT TAGCAGACTG GCTACTAGGC
              lacZ
      ~~~~~
      R  W  L  P  A  M  S  E  R  V  T  R  M  V  Q  R  D  ·
3751   CGCTGGCTAC CGGCGATGAG CGAACGCGTA ACGCGAATGG TGCAGCGCGA
      GCGACCGATG GCCGCTACTC GCTTGCGCAT TGCGCTTACC ACGTCGCGCT
              lacZ
      ~~~~~
      ·  R  N  H  P  S  V  I  I  W  S  L  G  N  E  S  G  H  ·

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Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

3801   TCGTAATCAC CCGAGTGTGA TCATCTGGTC GCTGGGGAAT GAATCAGGCC
      AGCATTAGTG GGCTCACACT AGTAGACCAG CGACCCCTTA CTTAGTCCGG
              lacZ
      ~~~~~
      ·   G   A   N   H   D   A   L   Y   R   W   I   K   S   V   D   P
3851   ACGGCGCTAA TCACGACGCG CTGTATCGCT GGATCAAATC TGTCGATCCT
      TGCCGCGATT AGTGCTGCGC GACATAGCGA CCTAGTTTAG ACAGCTAGGA
              lacZ
      ~~~~~
      S   R   P   V   Q   Y   E   G   G   G   A   D   T   T   A   T   D   ·
3901   TCCCGCCCGG TGCAGTATGA AGGCGGCGGA GCCGACACCA CGGCCACCGA
      AGGGCGGGCC ACGTCATACT TCCGCCGCCT CGGCTGTGGT GCCGGTGGCT
              lacZ
      ~~~~~
      ·   I   I   C   P   M   Y   A   R   V   D   E   D   Q   P   F   P   A   ·
3951   TATTATTTGC CCGATGTACG CGCGCGTGGA TGAAGACCAG CCCTTCCCGG
      ATAATAAACG GGCTACATGC GCGCGCACCT ACTTCTGGTC GGGAAGGGCC
              lacZ
      ~~~~~
      ·   V   P   K   W   S   I   K   K   W   L   S   L   P   G   E   T
4001   CTGTGCCGAA ATGGTCCATC AAAAAATGGC TTTCGCTACC TGGAGAGACG
      GACACGGCTT TACCAGGTAG TTTTTTACCG AAAGCGATGG ACCTCTCTGC
              lacZ
      ~~~~~
      R   P   L   I   L   C   E   Y   A   H   A   M   G   N   S   L   G   ·
4051   CGCCCGCTGA TCCTTTGCGA ATACGCCAC GCGATGGGTA ACAGTCTTGG
      GCGGGCGACT AGGAAACGCT TATGCGGGTG CGCTACCCAT TGTCAGAACC
              lacZ
      ~~~~~
      ·   G   F   A   K   Y   W   Q   A   F   R   Q   Y   P   R   L   Q   G   ·
4101   CGGTTTCGCT AAATACTGGC AGGCGTTTCG TCAGTATCCC CGTTTACAGG
      GCCAAAGCGA TTTATGACCG TCCGCAAAGC AGTCATAGGG GCAAATGTCC
              lacZ
      ~~~~~
      ·   G   F   V   W   D   W   V   D   Q   S   L   I   K   Y   D   E
4151   GCGGCTTCGT CTGGGACTGG GTGGATCAGT CGCTGATTAA ATATGATGAA
      CGCCGAAGCA GACCCTGACC CACCTAGTCA GCGACTAATT TATACTACTT
              lacZ
      ~~~~~
      N   G   N   P   W   S   A   Y   G   G   D   F   G   D   T   P   N   ·
4201   AACGGCAACC CGTGGTCGGC TTACGGCGGT GATTTTGGCG ATACGCCGAA
      TTGCCGTTGG GCACCAGCCG AATGCCGCCA CTAAAACCGC TATGCGGCTT
              lacZ
      ~~~~~
      ·   D   R   Q   F   C   M   N   G   L   V   F   A   D   R   T   P   H   ·

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Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

4251  CGATCGCCAG TTCTGTATGA ACGGTCTGGT CTTTGCCGAC CGCACGCCGC
      GCTAGCGGTC AAGACATACT TGCCAGACCA GAAACGGCTG GCGTGCGGCG
              lacZ
      ~~~~~
      · P A L T E A K H Q Q Q F F Q F R
4301  ATCCAGCGCT GACGGAAGCA AAACACCAGC AGCAGTTTTT CCAGTTCCTG
      TAGGTCGCGA CTGCCTTCGT TTTGTGGTCG TCGTCAAAAA GTCAAGGCA
              lacZ
      ~~~~~
      L S G Q T I E V T S E Y L F R H S ·
4351  TTATCCGGGC AAACCATCGA AGTGACCAGC GAATACCTGT TCCGTCATAG
      AATAGGCCCG TTTGGTAGCT TCACTGGTCG CTTATGGACA AGGCAGTATC
              lacZ
      ~~~~~
      · D N E L L H W M V A L D G K P L A ·
4401  CGATAACGAG CTCCTGCACT GGATGGTGGC GCTGGATGGT AAGCCGCTGG
      GCTATTGCTC GAGGACGTGA CCTACCACCG CGACCTACCA TTCGGCGACC
              lacZ
      ~~~~~
      · S G E V P L D V A P Q G K Q L I
4451  CAAGCGGTGA AGTGCCTCTG GATGTCGCTC CACAAGGTAA ACAGTTGATT
      GTTCGCCACT TCACGGAGAC CTACAGCGAG GTGTTCCATT TGTCAACTAA
              lacZ
      ~~~~~
      E L P E L P Q P E S A G Q L W L T ·
4501  GAACTGCCTG AACTACCGCA GCCGGAGAGC GCCGGGCAAC TCTGGCTCAC
      CTTGACGGAC TTGATGGCGT CGGCCTCTCG CGGCCCGTTG AGACCGAGTG
              lacZ
      ~~~~~
      · V R V V Q P N A T A W S E A G H I ·
4551  AGTACGCGTA GTGCAACCGA ACGCGACCGC ATGGTCAGAA GCCGGGCACA
      TCATGCGCAT CACGTTGGCT TGCCTGGCG TACCAGTCTT CGGCCCGTGT
              lacZ
      ~~~~~
      · S A W Q Q W R L A E N L S V T L
4601  TCAGCGCCTG GCAGCAGTGG CGTCTGGCGG AAAACCTCAG TGTGACGCTC
      AGTCGCGGAC CGTCGTCACC GCAGACCGCC TTTTGGAGTC AACTGCGAG
              lacZ
      ~~~~~
      P A A S H A I P H L T T S E M D F ·
4651  CCCGCCGCGT CCCACGCCAT CCCGCATCTG ACCACCAGCG AAATGGATTT
      GGGCGGCGCA GGGTGCGGTA GGGCGTAGAC TGGTGGTCGC TTTACCTAAA
              lacZ
      ~~~~~
      · C I E L G N K R W Q F N R Q S G F ·

```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

4701  TTGCATCGAG CTGGGTAATA AGCGTTGGCA ATTTAACCGC CAGTCAGGCT
      AACGTAGCTC GACCCATTAT TCGCAACCGT TAAATTGGCG GTCAGTCCGA
              lacZ
      ~~~~~
      ·  L  S  Q    M  W  I    G  D  K  K    Q  L  L    T  P  L
4751  TTCTTTCACA GATGTGGATT GCGGATAAAA AACAACTGCT GACGCCGCTG
      AAGAAAGTGT CTACACCTAA CCGCTATTTT TTGTTGACGA CTGCGGCGAC
              lacZ
      ~~~~~
      R  D  Q  F    T  R  A    P  L  D    N  D  I  G    V  S  E  ·
4801  CGCGATCAGT TCACCCGTGC ACCGCTGGAT AACGACATTG GCGTAAGTGA
      GCGCTAGTCA AGTGGGCACG TGGCGACCTA TTGCTGTAAC CGCATTCACT
              lacZ
      ~~~~~
      ·  A  T  R    I  D  P  N    A  W  V    E  R  W    K  A  A  G  ·
4851  AGCGACCCGC ATTGACCCTA ACGCCTGGGT CGAACGCTGG AAGGCGGCGG
      TCGCTGGGCG TAACTGGGAT TGCGGACCCA GCTTGCGACC TTCCGCCGCC
              lacZ
      ~~~~~
      ·  H  Y  Q    A  E  A    A  L  L  Q    C  T  A    D  T  L
4901  GCCATTACCA GGCCGAAGCA GCGTTGTTGC AGTGACGGC AGATACACTT
      CGGTAATGGT CCGGCTTCGT CGCAACAACG TCACGTGCCG TCTATGTGAA
              lacZ
      ~~~~~
      A  D  A  V    L  I  T    T  A  H    A  W  Q  H    Q  G  K  ·
4951  GCTGATGCGG TGCTGATTAC GACCGCTCAC GCGTGGCAGC ATCAGGGGAA
      CGACTACGCC ACGACTAATG CTGGCGAGTG CGCACCGTCG TAGTCCCCTT
              lacZ
      ~~~~~
      ·  T  L  F    I  S  R  K    T  Y  R    I  D  G    S  G  Q  M  ·
5001  AACCTTATTT ATCAGCCGGA AAACCTACCG GATTGATGGT AGTGGTCAAA
      TTGGAATAAA TAGTCGGCCT TTTGGATGGC CTAATACTA TCACCACTTT
              lacZ
      ~~~~~
      ·  A  I  T    V  D  V    E  V  A  S    D  T  P    H  P  A
5051  TGGCGATTAC CGTTGATGTT GAAGTGGCGA GCGATACACC GCATCCGGCG
      ACCGCTAATG GCAACTACAA CTTACCGCT CGCTATGTGG CGTAGGCCGC
              lacZ
      ~~~~~
      R  I  G  L    N  C  Q    L  A  Q    V  A  E  R    V  N  W  ·
5101  CGGATTGGCC TGAAGTGCCA GCTGGCGCAG GTAGCAGAGC GGGTAACTG
      GCCTAACCGG ACTTGACGGT CGACCGCGTC CATCGTCTCG CCCATTGAC
              lacZ
      ~~~~~
      ·  L  G  L    G  P  Q  E    N  Y  P    D  R  L    T  A  A  C  ·

```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```

5151  GCTCGGATTA GGGCCGCAAG AAAACTATCC CGACCGCCTT ACTGCCGCCT
      CGAGCCTAAT CCCGGCGTTC TTTTGATAGG GCTGGCGGAA TGACGGCGGA
              lacZ
      ~~~~~
      · F D R W D L P L S D M Y T P Y V
5201  GTTTTGACCG CTGGGATCTG CCATTGTCAG ACATGTATAC CCCGTACGTC
      CAAAACCTGGC GACCCTAGAC GGTAACAGTC TGTACATATG GGCATGCAG
              lacZ
      ~~~~~
      F P S E N G L R C G T R E L N Y G ·
5251  TTCCCGAGCG AAAACGGTCT GCGCTGCGGG ACGCGCGAAT TGAATTATGG
      AAGGGCTCGC TTTTGCCAGA CGCGACGCC TGC GCGCTTA ACTTAATACC
              lacZ
      ~~~~~
      · P H Q W R G D F Q F N I S R Y S Q ·
5301  CCCACACCAG TGGCGCGGCG ACTTCCAGTT CAACATCAGC CGCTACAGTC
      GGGTGTGGTC ACCGCGCCGC TGAAGGTCAA GTTGTAGTCG GCGATGTCAG
              lacZ
      ~~~~~
      · Q Q L M E T S H R H L L H A E E
5351  AACAGCAACT GATGGAAACC AGCCATCGCC ATCTGCTGCA CGCGGAAGAA
      TTGTCGTTGA CTACCTTTGG TCGGTAGCGG TAGACGACGT GCGCCTTCTT
              lacZ
      ~~~~~
      G T W L N I D G F H M G I G G D D ·
5401  GGCACATGGC TGAATATCGA CGGTTTCCAT ATGGGGATTG GTGGCGACGA
      CCGTGTACCG ACTTATAGCT GCCAAAGGTA TACCCCTAAC CACCGCTGCT
              lacZ
      ~~~~~
      · S W S P S V S A E F Q L S A G R Y ·
5451  CTCCTGGAGC CCGTCAGTAT CGGCGGAATT CCAGCTGAGC GCCGGTCGCT
      GAGGACCTCG GGCAGTCATA GCCGCCTTAA GGTCGACTCG CGGCCAGCGA
              lacZ                                     AttR2
      ~~~~~
      · H Y Q L V W C Q K
5501  ACCATTACCA GTTGGTCTGG TGTCAAAAAT AATGACTGCA GGTCGACCAT
      TGGTAATGGT CAACCAGACC ACAGTTTTTA TTA CTGACGT CCAGCTGGTA
              AttR2
      ~~~~~
5551  AGTGACTGGA TATGTTGTGT TTTACAGTAT TATGTAGTCT GTTTTTTATG
      TCACTGACCT ATACAACACA AAATGTCATA ATACATCAGA CAAAAAATAC
              AttR2
      ~~~~~

```

Table 14 (continued) Nucleotide sequence of the Mel/V5-His DEST cassette (SEQ ID NO: 94).

```
5601  CAAAATCTAA  TTTAATATAT  TGATATTTAT  ATCATTTTAC  GTTTCTCGTT
      GTTTTAGATT  AAATTATATA  ACTATAAATA  TAGTAAAATG  CAAAGAGCAA
              AttR2                                V5/His
      ~~~~~~                                     ~~~~~~
                                           G  K  P
5651  CAGCTTTCTT  GTACAAAGTG  GTGAGAATGA  ATGAAGATCT  GGGGAAGCCT
      GTCGAAAGAA  CATGTTTCAC  CACTCTTACT  TACTTCTAGA  CCCCTTCGGA
              V5/His
      ~~~~~~
      I  P  N  P  L  L  G  L  D  S  T  R  T  G  H  H  H  .
5701  ATCCCTAACC  CTCTCCTCGG  TCTCGATTCT  ACGCGTACCG  GTCATCATCA
      TAGGGATTGG  GAGAGGAGCC  AGAGCTAAGA  TGCGCATGGC  CAGTAGTAGT
              stop codon
              ~~~
              V5/His
      ~~~~~~
      .  H  H  H
5751  CCATCACCAT  TGA
      GGTAGTGGTA  ACT
```

Please amend Table 15 on pages 429 and 430 as follows:

Table 15: Baculoviral promoter sequences.

AcMNPV ORF 25 promoter (SEQ ID NO: 98)

Ggtgtcttcattagtagtccaatcacgtacgcaacagtcgaaaagaaacacacagtttcgtctccgcgacccgtgtaaaaaagtcgccgtt
ccgcaatgtttgtaaatcatgtcacgcaatgcggcaggccaaaagttaacaaacgtatccatacgcgactgaaattggacatgcatctgtaca
cacacttgggtttgccttcttcactagtagcagcgttgatggtaattgttcgcaaacgattcacgctcggcgatctttagcatatcgcgcaa
tacggcgacaagggttacgtgtgcatattcaatacacctcgtcttcggaccaatttttatttctgcttcgcaatactcgacacaaacgtgacgtca
acttgattgtatttaaaccggttaacgatcaagctgttaataaacgccgtgtttcaatgggataatttcaaacgaactatgtcttctattaacatg
tcgaatacgtgttcggcggtgtgtgcgcgaaagtgtcacacacgctgataaaaataaacggggcggtgtcctcgttcattttagctcgttaaa
gttacggcctcaaatgagcacgtttgcgtcgtttggttagcgacacgtttatatggcccagtttggtttgttcggcggttaatacgtgcactg
tggacaaatcgtgttctaaactacaaactcgtactcgaaaatgttgatagtgttggttagccgatctatctaaaattaaacttttgcaactc
gctgatagagcacacgtccacatactgtgcgataaaccggtgtcgaaccggtcgaacgggtgaatgttagcttgaaagggcgcatgtt
gaatgactaaaagggaatatttttcaataaatcgtcagtagtgtagcgaacgcgtgtgtacgcacatgctggcaacagagtcgtccatattat
tatatacttatattctgtgaacacttcaattagacttgaaccacagcagacgcacgtcggtagc

AcMNPV lef 3 promoter (SEQ ID NO: 99)

Ccgagaagaaggcggtttgtataaaacccattttcgaaatggttaacaaactgttttagcatttgatcgtttcgtgttcaaacgcgtcgaaaa
cttttaaacgcaattgccgccgggacgcaggcaattaaaattagctgcgtctcgcatgatcaaatcaaaagttagacgttctgttcgtt
tcgcgtccattaacgtcaaccgagccatctgccaacaccagatcgacgcgttgccacacttgatgctaactcaatacaaacattttatcaa
acacgtcgcctgactgtgcgggccccgtaattggtgtgaaatgttcggttgcgcactgtcgggtttgtacacgcacaccgagttgtttgtcaac
gtgacgccatagctttgcaaagcgggttcaacgacatggtatagttggcaaacctgcccgggtccgccgacaaatcaaaaacgtgtcaa
cgtgtcggcaaacgtgaaacttttgcgatctctgatagttttgcgaacatctaggtctgcgcgttggcggtttgtcaataattttagcgag
cgcaaacaccgactgtgtgtaacgtgttcaaacatctttgagtttatttaattttgtgcaacattttactcttctgtcgtcgtcgcaatgtt
gtgtcgaaaaagacggccaacacgctcagcaaaactatacaataaagaacaaaaatacgtacgcaatattaacattgaccgtttgatcgtt
aaatcgagcgggtctgttcagagccgctcttattctctcgtgtacattgttaaagttttgttttaattgtacacaatcgcggtgtgtagtcga
aattttcaaaatcggttttgaacattgttctgaacgtgtgtgcgagcggcggtgtgtggtggccaggttataatcaactccctccacgctaacg
aacggtgctctggcgacacttcgatttcgtcgccattcagttattgccatcggatagattccacatatcgacaacagcaat

AcMNPV TLP promoter (SEQ ID NO: 100)

tgtagcccaattggccactgtgtgacgaaatcgtcgtcgaacgtgtttgaatacatgttgccccgtaccgttggttaaactctatgcatctgga
gtcgcgggaacactcgtactggtgtcagagtttctgatccggttgatgcacgttatcagttgtgactcgttattattcaaacatttgaaatattgc
gtgtcgccgatatcggcggttatgtacgtgtgtccggcgccgttaaacgcgcacggatgcgttccacgcacgacattaagtgcgatcaaa
tatttatttcgcggggcatcgcgccaccacgtggcgccatttacgactgcataaactggttgacgagcaaatggagggaaggtatgata
gtatatagccgtctggcctgtttcacacaattcgttaactttacactggccggtttccgcgtcaaacgtgtaattatctggacattcttcgactgc
gtgcgtcctgtttgcaaaacacctaagatagaacgtgggatgataaagtgcgcgttggtagaataatctttgtccaagtgttggttcaacac
caacgtgtccagcaaacgctcgtccatgggataaagaccggcagactgtgtgcgcacggcgacgggaacacattttagttgtgcgtaa
tcaaggttaaaatcgcgggcatttcattgtgtcacgtcggcctgtgcgcgtcaaaataaactcgttgggattttcatcatttgcctaacgcg
atcgtgtacgattcgaacaggttgaaatgtttgatttaagaaatcaaaatttcaatccgggtcatcatgcacgcttctgtgatagggtgaaag
gtcgtcgggtgttgaaacacgttacaataaagtgtttgcataatatccgacacgtacgtcgttggtgtgggttcgtcgttggtgc
gcttcacatattcagtcacttgagccgcttggtgaaagtcgtttcgtcaaatcaaaataaattgccaataacattaaagtaaagcgtatta
taagaaaaagctt

Table 15 (continued) Baculoviral promoter sequences.

AcMNPV hr5 sequence (SEQ ID NO: 101)

Gttttacgcgtagaattctacccgtaaagcgagtttagttatgagccatgtgcaaaacatgacatcagctttttataacaaatgacatcatt
tcttgattgtgtttacacgtagaattctactcgtaaagcgagttcagtttgaaaaacaaatgacatcatcttttgattgtgctttacaagtagaat
tctacccgtaaatacaagttcggtttgaaaaacaaatgagtcattgtatgatatcatattgcaaacaaatgactcatcaatcgatcgtgcgtac
acgtagaattctactcgtaaagcgagtttagagccgtgtgcaaaacatgacatcatctcgatttgaaaaacaaatgacatcatccactgatcg
tgcgttacaagtagaattctactcgtaaagccagttcggtttagagccgtgtgcaaaacatgacatcagcttatgactcgtacttgattgtgttt
acgcgtagaattctactcgtaaagc

Please amend Table 16 on page 431 as follows:

Table 16: IE-1 promoter, coding, and polypeptide sequence.

AcMNPV IE-1 promoter (SEQ ID NO: 102)

Gttttacgcgtagaattctacccgtaaagcgagtttagttatgagccatgtgcaaacatgacatcagcttttattttataacaaatgacatcatt
tcttgattgtgtttacacgtagaattctactcgtaaagcgagttcagtttgaaaaacaaatgacatcatcttttgattgtgctttacaagtagaat
tctacccgtaaatcaagttcggtttgaaaaacaaatgagtcattgtatgatatcatattgcaaacaaatgactcatcaatcgatcgtgcgtac
acgtagaattctactcgtaaagcgagtttagagccgtgtgcaaacatgacatcatctcgatttgaaaaacaaatgacatcatccactgatcg
tgcgttacaagtagaattctactcgtaaagccagttcggttagagccgtgtgcaaacatgacatcagcttatgactcgtacttgattgtgttt
acgcgtagaattctactcgtaaagc

AcMNPV IE-1 coding sequence (SEQ ID NO: 103)

atgacgcaaattaattttaacgcgctgtacaccagcgcttcgacgccgtcccgagcgtcgttcgacaacagctattcagagttttgtgataaa
caaccaacgactatttaagttattataaccatcccaccccggtgagccgacagcgtgatatctgacagcgagactgcggcagcttcaa
acttttggcaagcgtcaactcgtaactgataatgatttagtggaatgtttgctcaagaccactgataatctcgaagaagcagtttagttctgctt
attattcggaatccctgagcagcctgttgaggcaaccatcgcccagttctgcttatcatgcggaatctttgagcattctgctggtgtgaac
caaccatcggaactggaactaaacggaagctggacgaatacttgacaattcacaaggtgtggtgggccagtttaacaaaattaaattga
ggcctaaatacaagaaaagcacaattcaagctgtgcaaccctgaacagacaattaatcacaacacgaacatttgacggctcgttcaact
caagaaattacgactattttactaatgattttgcccgatttaaatgcgttcgacgacaacgactacaattccaacaggttctccgaccatatgt
ccgaaactggttattacatgtttgtggttaaaaaagtgaaagtgaagccgttgaaattatattgccaagtagtgagcaatgtggtttacgaat
atacaacaattattacatggtagataatcgctgtttgtgtaacttttgataaaattagggtttatgatttcgtacaatttggttaagaaccggc
atagaaattcctcattctcaagatgtgtgcaacgacgagacggctgcacaaaattgtaaaaaatgccatttcgtcgatgtgcaccacacgttta
aagctgctctgacttcatttttaatttagatatgtattacgcgcaaacacatttgactttgttacaatcgttggcggaagaaaatgtgggtt
tcttttgagcaagttgtacgaaatgtatcaagataaaaattttactttgcctattatgcttagtcgtaaagagagtaatgaaattgagactgcat
ctaataatttcttgtatcgccgtatgtgagtcataatataaagtattcgaaagtgtgcagtttcccgacaatcccccacaaatattgtggtgg
acaatttaatttaattgtaacaaaaaagtagcgtcacgtacaaatacagcagcgtcgtaattctttgttaataattataaatatcatgacaat
attgcgagtaataataacgcagaaaattaaaaaaggtaagaaggagcggcagcatgcacattgtcgaacagatttgactcagaatgt
agataatgtaaagggtcacaattttatagattgtctttcaaaaacgaggagcgattgactatagctaagaaaaacaaagagttttattggatttc
tggcgaaattaaagatgtagacgtagtcaagtaattcaaaaatataatagatttaagcatcacatgtttgtaatcggtaaagtgaaccgaaga
gagagcactacattgcacaataattgttaaaattgttagctttaattacagggtctggttccgttgccgacgctataacgtttgcggaacaa
aaactaaattgtaaatataaaaaattcgaattaat

AcMNPV IE-1 protein sequence (SEQ ID NO: 104)

Mtqinfnasysastpsrasfdnsysefcdkqpndylsyynhptpdgadtvisdsetaaasnflasvnsitdndlvecllkttndnleeavs
sayysesleqpvpveqpspsayhaesfehsagvnpqpsatgtrkldeyldnsqgvvgqfnkiklrpkkykstiqtscatleqtinhntni
ctvastqeithyftndfapylmrddndynsnrfsdhmsetgyymfvvkksevpfeiiakyvsnvyeytnnyymvdnrvfvvt
fdkirfmisynlvketgieiphsqdvendetaaqnckkchfvdvhhtfkaaltsyfnldmyyaqttfvllqslgerkcgflsklyemy
qdknlfplmlsrkesneietaasnnffvspvysqilkysesvqfpdnppnkyyvndlnlnlvnkkstltykyssvanllfnnykyhdnia
snnnaenlkkvkckedgsmhiveqyltqnvdnvkghnfvlfskneerltiakknkefywisgeikdvdsqviqkynrfkhhmfvi
gkvnrresttlhnnllklallilqlplsdaitfaeqklncykfkf

Please amend Table 17 on pages 432-434 as follows:

Table 17: Nucleotide sequence of plasmid pLenti6/V5-DEST (SEQ ID NO: 105).

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AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGCATTGCAGAGATATTGTATTTAAGTG
CCTAGCTCGATACATAAACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTA
GGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCCTTGAGTGCCTCAAGTAGTGTGTGCCCGTCTGTTGT
GTGACTCTGGTAACTAGAGATCCCTCAGACCCCTTTTAGTCAGTGTGGAATCTCTAGCAGTGGCGCCCCG
AACAGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGC
GCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTGACTAGCGGAGGCTAGAAGGA
GAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGAGAAATTAGATCGCGATGGGAAAAAATTCGGTTA
AGGCCAGGGGAAAGAAAAAATATAAATTAAAAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTTCG
CAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCT
TCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCTCTATTGTGTGCATCAAAGG
ATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAACAAAAGTAAGACCACCG
CACAGCAAGCGGCCGCTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
ATAAATATAAAGTAGTAAAAAATTGAACCATTAGGAGTAGCACCCACCAAGGCAAAGAGAAGAGTGGTGCA
GAGAGAAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCCCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATG
GGCGCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACA
ATTTGCTGAGGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCA
GGCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGA
AAACTCATTTGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTGGA
ATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACTCCTTAATTGA
AGAATCGCAAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGG
AATTGGTTTAACATAACAAATTGGCTGTGGTATATAAATTATTTCATAATGATAGTAGGAGGCTTGGTAG
GTTTAAGAATAGTTTTTGTCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTT
TCAGACCCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGA
GACAGAGACAGATCCATTGATTAGTGAACGGATCTCGACGGTATCGATAAGCTTGGGAGTTCCGCGTTA
CATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATAATGAC
GTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACT
GCCCCCTTGGCAGTACATCAAGTGATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAAT
GGCCCGCCTGGCATTATGCCAGTACATGACCTTATGGGACTTTCTACTTGGCAGTACATCTACGTATT
AGTCATCGCTATTACCATGGTGATGCGGTTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCA
CGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACT
TTCCAAAATGTGCTAACAACCTCCGCCCATTTGACGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTA
TATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCAT
AGAAGACACCGACTCTAGAGGATCCACTAGTCCAGTGTGGTGGAATTCTGCAGATATCAACAAGTTTGTGTA
CAAAAAGCTGAAACGAGAAACGTAAAAATGATATAAATATCAATATATTAATTAATTAATTTGATTTAAACG
CAGACTACATAATACTGTAAAAACACAACATATCCAGTCACATATGGCGGCCGATTAGGCACCCAGGCTT
TACACTTTATGCTTCCGGCTCGTATAATGTGTGGATTTTGAGTTAGGATCCGGCGAGATTTTCAGGAGCT
AAGGAAGCTAAAATGGAGAAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAG
AACATTTTGAGGCATTTTCAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTTCAGCTGGATATTACGGC
CTTTTTAAAGACCGTAAAGAAAAATAAGCACAAGTTTTATCCGGCCTTTATTACATTCTTGCCCGCCTG
ATGAATGCTCATCCGGAATTCGGTATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTTACC
CTTGTTACACCGTTTTTCATGAGCAAACTGAAACGTTTTTCATCGCTCTGGAGTGAATACCACGACGATTT
CCGGCAGTTTCTACACATATATTTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGCCTATTTCCCTAAA
GGGTTTATTGAGAAATGTTTTTCGTCTCAGCCAATCCCTGGGTGAGTTTCACAGTTTGTATTTAAACG
TGGCCAATATGGACAACCTTCTTCGCCCCCGTTTTTACCATGGGCAAATATTATACGCAAGGCGACAAGGT
GCTGATGCCGCTGGCGATTTCAGGTTTCATCATGCCGTCTGTGATGGCTTCATGTGGCAGAATGCTTAAT
GAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAAAGATCTGGATCCGGCTTACTAAAAGCCA
GATAACAGTATGCGTATTTGCGCGCTGATTTTTGCGGTATAAGAATATATACTGATATGTATACCCGAAG
TATGTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTACAGTGACAGTTGACAGCGACAGCTATCAGTTGC
TCAAGGCATATATGATGTCAATATCTCCGGTCTGGTAAGCACAACCATGCAGAATGAAGCCCGTCTGCTG
CGTGCCGAACGCTGGAAAGCGGAAAAATCAGGAAGGGATGGCTGAGGTCGCCCGGTTTTATTGAAATGAACG
GCTCTTTTGTCTGACGAGAACAGGGACTGGTGAAATGCAGTTTAAAGTTTACACCTATAAAAGAGAGAGCC
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Table 17 (continued) Nucleotide sequence of plasmid pLenti6/V5-DEST (SEQ ID NO: 105).

GTTATCGTCTGTTTGTGGATGTACAGAGTGATATTATTGACACGCCCGGGCGACGGATGGTGATCCCCCT
GGCCAGTGCACGTCTGCTGTGATAGATAAAGTCTCCCGTGAACCTTACCCGGTGGTGATATCGGGGATGAA
AGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCCGGTCTCCGTTATCGGGGAAGAAGTGGCTGATC
TCAGCCACCGCGAAAATGACATCAAAAACGCCATTAACCTGATGTTCTGGGGAATATAAATGTGAGGCTC
CGTTATACACAGCCAGTCTGCAGGTGCACCATAGTGACTGGATATGTTGTGTTTTACAGTATTATGTAGT
CTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTTACGTTTCTCGTTCAGCTTTC
TTGTACAAAGTGTTGATATCCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCCGCGGTTCCGAAGGTA
AGCCTATCCCTAACCCCTCTCTCGGTCTCGATTCTACGCGTACCGGTTAGTAATGAGTTTGGAAATTAATT
CTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGGCAGGCAGAAGTATGCAAAAGC
ATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAA
GCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCCTAACTCCGCCCATCCCCCCCCCTAACTCCGCC
CAGTTCCGCCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTTATTTATGCAAGGCCCAGGCCCCCTCT
GCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAGCTCCCCG
GAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAATTAATCATCGGCATAGTATATCGGC
ATAGTATAATACGAAGGTGAGGAACATAACCATGGCCAAGCCTTTGTCTCAAGAAGAATCCACCCTCA
TTGAAAGAGCAACGGCTACAATCAACAGCATCCCCATCTCTGAAGACTACAGCGTCGCGAGCGACTCT
CTCTAGCGACGGCCGCATCTTCACTGGTGTCAATGTATATCATTTTTACTGGGGACCTTGTGTCAGAACTC
GTGGTGCTGGGCACTGCTGCTGCTGCGGCAGCTGGCAACCTGACTTGTATCGTCGCGATCGGAAATGAGA
ACAGGGGCATCTTGAGCCCCCTGCGGACGGTGCCGACAGGTGCTTCTCGATCTGCATCCTGGGATCAAAGC
CATAGTGAAGGACAGTGATGGACAGCCGACGGCAGTTGGGATTCTGTAATTGCTGCCCTCTGGTTATGTG
TGGGAGGGCTAAGCACAAATTCGAGCTCGGTACCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTT
AGCCACTTTTTTAAAAAGAAAAGGGGGGACTGGAAGGGCTAATTCCTCCCAACGAAGACAAGATCTGCTTT
TTGCTTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCC
ACTGCTTAAGCCTCAATAAAGCTTGCCCTTGAGTGCTTCAAGTAGTGTGTGCCGTCTGTTGTGTGACTCT
GGTAAGAGATCCCTCAGACCCTTTTAGTCAGTGTGTGAAAATCTCTAGCAGTAGTAGTTCATGTTCATC
TTATTATTTCAGTATTTATAAAGTGGCAAGAAATGAATATCAGAGAGTGAGAGGAAGTGTGTTATTGTCAGC
TTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTTCACTGCATTCT
AGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCCTAACTCC
GCCCATCCCGCCCCCTAACTCCGCCCAGTTCCGCCCATCTCCGCCCATGGCTGACTAATTTTTTTTATTT
TATGCAAGGCCCAGGCCCGCTCGGCCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCC
TAGGGACGTACCCAATTCGCCCTATAGTGAGTTCGTATTACGCGCGCTCACTGGCCGTCGTTTTTACAACGT
CGTGACTGGGAAAACCTTGCGGTTACCCAATTAATCGCCTTGCGACACATCCCCCTTTTCGCCAGCTGGC
GTAATGAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGACGC
GCCCTGTAGCGGCGCATTAAGCGCGGGGTGTGGTGTTTACGCGCAGCGTGACCGCTACACTGTCCAGC
GCCCTAGCGCCCCGCTCCTTTTCGCTTTCTTCCCTTCTCTCGCCACGTTTCGCCGGCTTTCCCCGTCAAG
CTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCCAAAAAAGTGA
TTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTTCGCCCTTTGACGTTGGAGTCC
ACGTTCTTTAATAGTGGACTCTTGTTCCAAACCTGGAACAACACTCAACCCTATCTCGGTCTATTTCTTTG
ATTTATAAGGGATTTTGCAGTTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACGC
GAATTTTAACAAAATATTAACGCTTACAATTTAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTA
TTTGTGTTATTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCA
ATAATATTGAAAAAGGAAGAGTATGAGTATTTCAACATTTCCGTGTGCGCCCTATTCCCTTTTTTGCGGCA
TTTTGCCTTCCCTGTTTTTGTCTACCCAGAAAACGCTGGTGAAAGTAAAGATGCTGAAGATCAGTTGGGTG
CACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAAGATCCTTGAGAGTTTTTCGCCCCGAAGAACG
TTTTTCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAA
GAGCAACTCGGTGCGCCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTACCCAGTCACAGAAAAGC
ATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGC
CAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGATCAT
GTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGA
TGCCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACTGGCGAACTACTTACTCTAGCTTCCCGGCA
ACAATTAATAGACTGGATGGAGGCGGATAAAGTTGAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGC
TGGTTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAG
ATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAG
ACAGATCGCTGAGATAGGTGCCCTCACTGATTAAGCATTGGTAAGTGTGACACCAAGTTTACTCATATATA

Table 17 (continued) Nucleotide sequence of plasmid pLenti6/V5-DEST (SEQ ID NO: 105).

CTTTAGATTGATTTAAAACTTCATTTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCA
TGACCAAAATCCCTTAACGTGAGTTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATC
TTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAACCACCGCTACCAGCGGTG
GTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCAGCAGAGCGCAGATAC
CAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATA
CCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGAC
TCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTTCGTGCACACAGCCAGCT
TGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGA
AGGGAGAAAGGCGGACAGGTATCCGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCA
GGGGGAAACGCCTGGTATCTTTATAGTCCTGTTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGT
GATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTT
TTGCTGGCCTTTTGCTCACATGTTCTTTTCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCC
TTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGG
AAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCAATTAATGCAGCTGGCACGACAG
GTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCC
CAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTACACAG
GAAACAGCTATGACCATGATTACGCCAAGCGCGCAATTAACCCTCACTAAAGGGAACAAAAGCTGGAGCT
GCAAGCTT

Please amend Table 18 on pages 435 and 436 as follows:

Table 18: Nucleotide sequence of plasmid pLenti6/V5-D-TOPO™ (SEQ ID NO: 106).

AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGCATTGCAGAGATATTGTATTTAAGTG
CCTAGCTCGATACATAAACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTA
GGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCCTTGAGTGTCTCAAGTAGTGTGTGCCCCGTCTGTTGT
GTGACTCTGGTAACTAGAGATCCCTCAGACCCCTTTTGTAGTCACTGTGGAAAATCTCTAGCAGTGGCGCCCG
AACAGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGC
GCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTTGACTAGCGGAGGCTAGAAGGA
GAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGAGAAATTAGATCGCGATGGGAAAAAATTCGGTTA
AGGCCAGGGGAAAGAAAAATATAAATTAATAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTTCG
CAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCT
TCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCTCTATTGTGTGCATCAAAGG
ATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAACAAAAGTAAGACCACCG
CACAGCAAGCGGCCGCTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
ATAAATATAAAGTAGTAAAAATTGAACCATTAGGAGTAGCACCCACCAAGGCAAAGAGAAGAGTGGTGCA
GAGAGAAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCCCTGGGTTCTTGGGAGCAGCAGGAAGCACTATG
GGCGCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACA
ATTTGCTGAGGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCA
GGCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTGGGGTTGCTCTGGA
AAACTCATTTGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGGA
ATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTCCTTAATTGA
AGAATCGCAAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGG
AATTGGTTTAACATAACAAATTGGCTGTGGTATATAAAATTTATTCATAATGATAGTAGGAGGCTTGGTAG
GTTTAAGAATAGTTTTTGTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTT
TCAGACCCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGGAAGGAATAGAAGAAGAAGGTGGAGAGAGA
GACAGAGACAGATCCATTGATTAGTGAACGGATCTCGACGGTATCGATAAGCTTGGGAGTTCCGCGTTA
CATAACTTACGTTAAATGGCCCGCTGGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATAATGAC
GTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACT
GCCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAAT
GGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATT
AGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCA
CGGGGATTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACT
TTCCAAAATGTCGTAACAACCTCGCCCCATTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTA
TATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCAT
AGAAGACACCGACTCTAGAGGATCCACTAGTCCAGTGTGGTGGAAATTGATCCCTTCACCAAGGGCTCGAG
TCTAGAGGGCCCCGCGTTTGAAGGTAAGCCTATCCCTAACCCCTCTCCTCGGTCTCGATTCTACGCGTACC
GGTTAGTAATGAGTTTGGAAATTAATTCTGTGGAATGTGTGTCACTAGTTAGGGTGTGGAAAGTCCCCAGGCTC
CCCAGGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGG
CTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCCTAACT
CCGCCCATCCCCGCCCTAACTCCGCCCAGTTCCGCCCATTTCTCGCCCCATGGCTGACTAATTTTTTTTA
TTTATGCAAGAGGCCGAGGCCGCTCTGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGG
CCTAGGCTTTTGCAAAAAGCTCCCGGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACA
ATTAATCATCGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACTAAACCATGGCCAAGCC
TTTGTCTCAAGAAGAATCCACCCTCATTGAAAGAGCAACGGCTACAATCAACAGCATCCCCATCTCTGAA
GACTACGCGTCGCCAGCGCAGCTCTCTCTAGCAGCGGCCGCTCTTCACTGGTGTCAATGTATATCATT
TTACTGGGGGACCTTGTGCAGAACTCGTGGTGCTGGGCACTGCTGCTGCTGCGCAGCTGGCAACCTGAC
TTGTATCGTCGCGATCGGAAATGAGAACAGGGGCATCTTGAGCCCCCTGCGGACGGTGCCGACAGGTGCTT
CTCGATCTGCATCCTGGGATCAAAGCCATAGTGAAGGACAGTGATGGACAGCCGACGGCAGTTGGGATTC
GTGAATTGCTGCCCTCTGGTTATGTGTGGGAGGGCTAAGCACAATTGAGCTCGGTACCTTTAAGACCAA
TGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTTAAAGAAAAGGGGGAGCTGGAAGGGCTAATTCA
CTCCCAACGAAGACAAGATCTGCTTTTTGCTTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGG
GAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCCTTGAGTGTCTCAAGTAG

Table 18 (continued) Nucleotide sequence of plasmid pLenti6/V5-D-TOPO™
(SEQ ID NO: 106).

TGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAAT
CTCTAGCAGTAGTAGTTTCATGTCTATTTATTTCAGTATTTATAACTTGCAAAGAAATGAATATCAGAG
AGTGAGAGGAACTTGTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAA
ATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTG
GCTCTAGCTATCCCGCCCCCTAACTCCGCCCCATCCCGCCCCCTAACTCCGCCCCAGTTCCGCCCCATTCTCCGC
CCCATGGCTGACTAATTTTTTTTTTATTTATGCAGAGGCCGAGGCCGCTCGGCCTCTGAGCTATTCCAGAA
GTAGTGAGGAGGCTTTTTTGGAGGCCCTAGGGACGTACCCAATTCGCCCTATAGTGAGTCGTATTACGCGC
GCTCACTGGCCGTCGTTTTTACAACGTCGTGACTGGGAAAACCCCTGGCGTTACCCAACCTTAATCGCCTTGC
AGCACATCCCCCTTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTG
CGCAGCCTGAATGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGGTGTGGTGGTTACGC
GCAGCGTGACCGCTACACTTGCCAGCGCCCCTAGCGCCCGCTCCTTTTCGCTTTCTTCCCTTCTTTCTCGC
CACGTTTCGCCGGCTTTCCCGCTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTA
CGGCACCTCGACCCCAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGG
TTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACT
CAACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTTGCCGATTTTCGGCCTATTGGTTAAAAAAT
GAGCTGATTTAACAATAATTTAACGCGAATTTTAAACAAATATTAAACGCTTACAATTTAGGTGGCACTTT
TCGGGGAAATGTGCGCGGAACCCCTATTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATG
AGACAATAACCCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTG
TCGCCCTTATTCCCTTTTTTTCGCCGATTTTGCCCTTCTGTTTTTGTCTACCCAGAAACGCTGGTGAAAGT
AAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAACTGGATCTCAACAGCGGTAAGATC
CTTGAGAGTTTTTCGCCCCGAAGAACGTTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGG
TATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTTCGCCGCATACACTATTCTCAGAATGACTTGGT
TGAGTACTCACCAGTCACAGAAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCC
ATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCG
CTTTTTTGCACAACATGGGGGATCATGTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCAT
ACCAAACGACGAGCGTGACACACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACTGGC
GAACACTTTACTCTAGCTTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCAC
TTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCG
CGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGT
CAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAAC
TGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACCTTCATTTTTTAATTTAAAAGGATCTA
GGTGAAGATCCTTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTTCGTTCCACTGAGCGTCA
GACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAA
CAAAAAAACACCGCTACCAGCGGTGGTTTGTGTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGT
AACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTC
AAGAAGTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCG
ATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTGGGCTGAAC
GGGGGGTTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAG
CTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTTCGGAA
CAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTGCGGGTTTCGCCA
CCTCTGACTTGAGCGTCGATTTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAAC
GCGGCCTTTTTACGGTTCTTGCCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCTGCGTTATCCCCTG
ATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGACGCCGAACGACCGGAGCG
CAGCGAGTCAGTGAGCGAGGAAGCGGAGCGCCCAATACGCAAAACCGCCTCTCCCCGCGCGTTGGCCG
ATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATG
TGAGTTAGCTCACTCATTAGGCACCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAAT
TGTGAGCGGATAACAATTTACACAGGAAACAGCTATGACCATGATTACGCCAAGCGCGCAATTAACCTT
CACTAAAGGGAACAAAAGCTGGAGCTGCAAGCTT

Please amend Table 19 on pages 437-439 as follows:

Table 19: Nucleotide sequence of pLenti4/V5-DEST (SEQ ID NO: 107).

AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGATTCGAGAGATATTGTATTTAAGTG
CCTAGCTCGATACATAAACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTA
GGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCCTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGT
GTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTGGCGCCCG
AACAGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGC
GCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTTACTAGCGGAGGCTAGAAGGA
GAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGAGAATTAGATCGCGATGGGAAAAAATTCGGTTA
AGGCCAGGGGGAAAAGAAAAATATAAATTAAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTTCG
CAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCT
TCAGACAGGATCAGAAGAATTAGATCATTATATAATACAGTAGCAACCCCTCTATTGTGTGCATCAAAGG
ATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAACAAAAGTAAGACCACCG
CACAGCAAGCGGCCGTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
ATAAATATAAAGTAGTAAAAAATTGAACCATTAGGAGTAGCACCCACCAAGGCAAGAGAAGAGTGGTGCA
GAGAGAAAAAAGAGCAGTGGGAATAGGAGCTTTGTTTCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATG
GGCGCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACA
ATTTGCTGAGGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCA
GGCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTGGGGTTGCTCTGGA
AAACTCATTTGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGGA
ATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTCCTTAATTGA
AGAATCGCAAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGG
AATTGGTTTAAACATAACAAATTGGCTGTGGTATATAAATTATTTCATAATGATAGTAGGAGGCTTGGTAG
GTTTAAGAATAGTTTGTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTTATCGTT
TCAGACCCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGA
GACAGAGACAGATCCATTGATAGTGAACGGATCTCGACGGTATCGATAAGCTTGGGAGTTCCGCGTTA
CATAACTTACGGTAAATGGCCCGCTGGCTGACCGCCCAACGACCCCGCCATTGACGTCAATAATGAC
GTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAACT
GCCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAAT
GGCCCGCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTTCTACTTGGCAGTACATCTACGTATT
AGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGATAGCGGTTTGACTCA
CGGGGATTTCCAAGTCTCCACCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACT
TTCCAAAATGTCGTAACAACTCCGCCCATGACGCAAAATGGGCGGTAGGCGGTGACGGTGGAGGCTCTA
TATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCAT
AGAAGACACCGACTCTAGAGGATCCACTAGTCCAGTGTGGTGAATTCTGCAGATATCAACAAGTTTGTA
CAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATATTAAATTAGATTTTGCATAAAAAA
CAGACTACATAATACTGTAAAACACAACATATCCAGTCACTATGGCGGCCGATTAGGCACCCCAAGGCTT
TACACTTTATGCTTCCGGCTCGTATAATGTGTGGATTTTGGAGTTAGGATCCGGCGAGATTTTCAGGAGCT
AAGGAAGCTAAAATGGAGAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAG
AACATTTTGAGGCATTTAGTCAAGTTGCTCAATGTACCTATAACCAGACCGTTACAGTGGATATTACGGC
CTTTTTAAAGACCGTAAAGAAAAATAAGCAAGTTTTATCCGGCCTTTATTACATTTCTGCCCCGCTG
ATGAATGCTCATCCGGAATTCCGTATGGCAATGAAGACGGTGAGTGGTGATATGGGATAGTGTTCACC
CTTGTTACACCGTTTTTCCATGAGCAAACCTGAAACGTTTTTCATCGCTCTGGAGTGAATACCACGACGATTT
CCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGTGTACGGTGAAAACCTGGCCTATTTCCCTAAA
GGGTTTTATTGAGAATATGTTTTCTGCTCAGCCAATCCCTGGGTGAGTTTACACAGTTTTGATTTAAACG
TGGCCAATATGGACAACCTTCTCGCCCCGTTTTTACCATGGGCAAATATTATACGCAAGGCGACAAGGT
GCTGATGCCGCTGGCGATTGAGGTTTCATCATGCCGCTGTGATGGCTTCCATGTCCGCAGAATGCTTAAT
GAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAAAGATCTGGATCCGGCTTACTAAAAGCCA
GATAACAGTATGCGTATTTGCGCGCTGATTTTTGCGGTATAAGAATATATACTGATATGTATACCCGAAG
TATGTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTACAGTGACAGTTGACAGCGACAGCTATCAGTTGC
TCAAGGCATATATGATGTCAATATCTCCGCTCTGGTAAGCACAACCATGCAGAATGAAGCCCGTCGTCGTG
CGTGCCGAACGCTGGAAAGCGGAAAAATCAGGAAGGGATGGCTGAGGTCGCCCCGTTTATTGAAATGAACG

Table 19 (continued) Nucleotide sequence of pLenti4/V5-DEST (SEQ ID NO: 107).

GCTCTTTTGTCTGACGAGAACAGGGACTGGTGAAATGCAGTTTAAGGTTTACACCTATAAAAAGAGAGAGCC
GTTATCGTCTGTTTGTGGATGTACAGAGTGATATTATTGACACGCCCGGGCGACGGATGGTGATCCCCCT
GGCCAGTGCACGTC'TGCTGTGAGATAAAGTCTCCCGTGAAC'TTACCCGGTGGTGATATCGGGGATGAA
AGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCCGGTCTCCGTTATCGGGGAAGAAGTGGCTGATC
TCAGCCACCGCGAAAATGACATCAAAAACGCCATTAACCTGATGTTCTGGGGAATATAAATGTCAGGCTC
CGTTATACACAGCCAGTCTGCAGGTTCGACCATAGTGAAGTGGATATGTTGTGTTTACAGTATTATGTAGT
CTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTACGTTTCTCGTTCAGCTTTC
TTGTACAAAAGTGGTTGATATCCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCCGCGGTTCTGAAGGTA
AGCCTATCCCTAACCTCTCCTCGGTCTCGATTCTACGCGTACCGGTTAGTAATGAGTTTGGAAATTAATT
CTGTGGAATGTGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGGCAGGCAGGAAGTATGCAAAGC
ATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGGAAGTATGCAAA
GCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCCTAACTCCGCCCATCCCGCCCCCTAACTCCGCC
CAGTTCGCCCCATTC'TCCGCCCATGGCTGACTAATTTTTTTTTTATTTATGTCAGAGGCCGAGGCCGCCTCT
GCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAGCTCCCCC
TGTTGACAATTAATCATCGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACATAACCATTG
GCCAAGTTGACCAGTGCCGTTCCGGTGTCTCACCGCGCGCAGCTCGCCGGAGCGGTTCAGTTCTGGACCG
ACCGGCTCGGGTCTC'TCCCGGACTTCGTGGAGGACGACTTCGCCGGTGTGGTCCGGGACGACGTGACCCT
GTTTCATCAGCGCGGTCCAGGACCAGGTGGTGCCGACAACACCCTGGCCTGGGTGTGGGTGCGCGGCCCTG
GACGAGCTGTACGCCGAGTGGTTCGGAGGTCTGTGCCAGAACTTCGGGACGCTCCGGGCCGGCCATGA
CCGAGATCGGCGAGCAGCCGTGGGGGCGGGAGTTTCGCCCTGCGCGACCCGGCCGCAACTGCGTGCACCTT
CGTGGCCGAGGAGCAGGACTGACACGTGCTACGAGATTTAAATGGTACCTTTAAGACCAATGACTTACAA
GGCAGCTGTAGATCTTAGCCACTTTTTTAAAGAAAAGGGGGGACTGGAAGGGCTAATTCACCTCCCAACGA
AGACAAGATCTGCTTTTTGTCTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTG
GCTAACTAGGGAACCCCATGCTTAAGCCTCAATAAAGCTTGCCCTTGAGTGCTTCAAGTAGTGTGTGCCCG
TCTTTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCCTTTAGTCAGTGTGGAATACTCTAGCAGT
AGTAGTTTCATGTCTATCTTATTATTAGTATTTATAACTTGCAAAGAAATGAATATCAGAGAGTCTAGAGGA
ACTTGTTTATTGTCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATT
TTTTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTA
TCCCGCCCCCTAACTCCGCCCATCCCGCCCCCTAACTCCGCCCAGTTCGCCCCATTCCTCGCCCCATGGCTG
ACTAATTTTTTTTTTATTTATGTCAGAGGCCGAGGCCGCTCGGCCCTGAGCTATTCCAGAAGTAGTGAGGA
GGCTTTTTTGGAGGCCTAGGGACGTACCCAATTCGCCCTATAGTGAGTCGTATTACGCGCGCTCACTGGC
CGTCGTTTTACAACGTCGTGACTGGGAAAACCTGGCGTTACCCAACCTAATCGCCTTGACGACATCCC
CCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGA
ATGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAAGCGCGCGGGTGTGGTGGTTACGCGCAGCGTGAC
CGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTTCGCTTTCTTCCCTTCCTTTCTCGCCAGCTTCGCC
GGCTTTCCCGCTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCG
ACCCCAAAAACTTGATTAGGGTGATGGTTACGTAAGTGGGCCATCGCCCTGATAGACGGTTTTTTCGCC
TTTGACGTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAACTGGAACAACACTCAACCCTATC
TCGGTCTATTCTTTTGATTTATAAGGGATTTTGCCGATTTTCGGCCTATTGGTTAAAAAATGAGCTGATTT
AACAAAAATTTAACGCGAATTTTAACAAAATATTAACGCTTACAATTTAGGTGGCACTTTTCGGGGAAAT
GTGCGCGGAACCCCTATTGTTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAAC
CCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTGCGCCCTAT
TCCCTTTTTTGCAGCATTTTGCCTTCCTGTTTTTGTCTACCCAGAAACGCTGGTGAAAGTAAAAGATGCT
GAAGATCAGTTGGGTGCACGAGTGGGTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTT
TTCGCCCGGAAGAAGCTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCG
TATTGACGCCCGGCAAGAGCAACTCGGTGCGCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTCA
CCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGA
GTGATAACACTGCGGCCAATTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCA
CAACATGGGGGATCATGTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGAC
GAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACCTGGCGAACTACTTA
CTTAGCTTCCCGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTCTGCGCTC
GGCCCTTCCGGCTGGCTGGTTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGTACATT
GCAGCACTGGGGCCAGATGGTAAGCCC'TCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTA
TGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACCTGTCAGACCA
AGTTTACTCATATATACTTTAGATTGATTTAAACTTCATTTTTTAATTTAAAGGATCTAGGTGAAGATC

Table 19. Nucleotide sequence of pLenti4/V5-DEST (SEQ ID NO: 107).

CTTTTGGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTTCGTTCCACTGAGCGTCAGACCCCGTAG
AAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAACC
ACCGCTACCAGCGGTGGTTTGTGTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTC
AGCAGAGCGCAGATACCAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTG
TAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAAGTGGCTGCTGCCAGTGGCGATAAGTCTGTG
TCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCTGGGCTGAACGGGGGGTTCG
TGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAA
GCGCCACGCTTCCCGAAGGGAGAAAAGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCG
CACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTCTGGGTTTTCGCCACCTCTGACTT
GAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTT
TACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCTGCGTTATCCCCTGATTCTGTGGA
TAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCA
GTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCAATTAAT
GCAGCTGGCACGACAGGTTTCCCGACTGGAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCT
CACTCATTAGGCACCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGA
TAACAATTTACACAGGAAACAGCTATGACCATGATTACGCCAAGCGCGCAATTAACCCTCACTAAAGGG
AACAAAAGCTGGAGCTGCAAGCTT

Please amend Table 20 on pages 440- 442 as follows:

Table 20: Nucleotide sequence of pLenti6/UbC/V5-DEST (SEQ ID NO: 108).

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AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGCATTGCAGAGATATTGTATTTAAGTG
CCTAGCTCGATACATAAACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTA
GGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGT
GTGACTCTGGTAAGTAGAGATCCCTCAGACCCCTTTAGTCTAGTGGAAGTCTCTAGCAGTGGCGCCCG
AACAGGGACTTGAAAGCGAAAGGGAAACAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGC
GCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTTACTAGCGGAGGCTAGAAGGA
GAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGAGAATTAGATCGCGATGGGAAAAAATTCGGTTA
AGGCCAGGGGGAAAGAAAAAATATAAATTAAAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTCTG
CAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCT
TCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCCCTCTATTGTGTGCATCAAAGG
ATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAACAAAAGTAAGACCACCG
CACAGCAAGCGGCCGCTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT
ATAAATAAAGTAGTAAAAATTGAACCATTAGGATAGACACCCACCAAGGCAAGAGAAGAGTGGTGCA
GAGAGAAAAAGAGCAGTGGGAATAGGAGCTTTGTTTCCTGGGTTCTTGGGAGCAGCAGGAAGCACTATG
GGCGCAGCGTCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACA
ATTTGCTGAGGGCTATTGAGGCGCAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAAGCAGCTCCA
GGCAAGAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGA
AAACTCATTTGCACCACTGCTGTGCCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTTGGA
ATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTCCTTAATTGA
AGAATCGCAAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGG
AATTGGTTTAACATAACAAATTGGCTGTGGTATATAAAATTATTATAATGATAGTAGGAGGCTTGCTAG
GTTTAAGAATAGTTTTTGCTGTACTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTCGTT
TCAGACCCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGA
GACAGAGACAGATCCATTGATAGTGAACGGATCTCGACGGTATCGGATCTGGCCTCCGCGCCGGGTTT
TGGCGCCTCCCGCGGGCGCCCCCTCCTCACGGCGAGCGCTGCCACGTCAGACGAAGGGCGCAGGAGCGT
CCTGATCCTTCCGCCCCGACGCTCAGGACAGCGGCCGCTGCTCATAAGACTCGGCCTTAGAACCCAGT
ATCAGCAGAAGGACATTTTAGGACGGGACTTGGGTGACTCTAGGGCACTGGTTTTCTTTCCAGAGAGCGG
AACAGGCGAGGAAAAGTAGTCCCTTCTCGGCGATTCTGCGGAGGGATCTCCGTGGGGCGGTGAACGCCGA
TGATTATATAAGGACGCGCCGGGTGTGGCACAGCTAGTTCCGTGCGAGCCGGGATTTGGGTGCGGGTTCT
TGTTTGTGATCGCTGATCGTCACTTGTTGAGTAGCGGGCTGCTGGGCTGGCCGGGGCTTTCTGTGGCC
GCCGGGCCGCTCGGTGGGACGGAAGCGTGTGGAGAGACGCCAAGGGCTGTAGTCTGGGTCCGCGACAA
GGTTGCCCTGAACTGGGGGTTGGGGGGAGCGCAGCAAAATGGCGGCTGTTCCCGAGTCTTGAATGGAAGA
CGCTTGTGAGGCGGGCTGTGAGGTGTTGAAACAAGGTGGGGGGCATGGTGGGCGGCAAGAACCAAGGT
CTTGAGGCCTTCGTAATGCGGAAAGCTCTTATTCCGGTGAGATGGGCTGGGGCACCATCTGGGGACCC
TGACGTGAAGTTTGTCACTGACTGGAGAACCTCGGTTTGTCTGTCTGTTGCGGGGGCGGCAGTTATGCGGTG
CCGTTGGGCAGTGACCCCGTACCTTTGGGAGCGCGCGCCCTCGTCTGTCTGTGACGTACCCCGTTCTGTT
GGCTTATAATGCAGGGTGGGGCCACCTGCCGGTAGGTGTGCGGTAGGCTTTTCTCCGTGCGAGGACGCAG
GGTTCGGGCCTAGGGTAGGCTCTCCTGAATCGACAGGCGCGGACCTCTGGTGAGGGGAGGGATAAGTGA
GGCGTCAGTTTCTTTGGTCCGTTTATGTACCTATCTTCTTAAGTAGCTGAAGCTCCGGTTTGAACCTAT
GCGCTCGGGGTTGGCGAGTGTGTTTTGTGAAGTTTTTTAGGCACCTTTTGAAATGTAATCATTTCGGTCA
ATATGTAATTTTCAGTGTTAGACTAGTAAATTGTCCGCTAAATTCTGGCCGTTTTTTGGCTTTTTTTGTAG
ACGAAGCTTGGTACCGAGCTCGGATCCACTAGTCCAGTGTGGTGGAATTCTGCAGATATCAACAAGTTTG
TACAAAAAAGCTGAACGAGAAACGTAAAATGATATAAATATCAATATATTAAATTAGATTTTGCATAAAA
AACAGACTACATAATACTGTAAACACAACATATCCAGTCACTATGGCGGCCGATTAGGCACCCAGGC
TTTACACTTTATGCTTCCGGCTCGTATAATGTGTGGATTTTGTAGTTAGGATCCGGCGAGATTTTCAGGAG
CTAAGGAAGCTAAAATGGAGAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAA
AGAACATTTTAGGACCTTTCAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTTCAGCTGGATATTACG
GCCTTTTAAAGACCGTAAAGAAAAATAAGCAACAAGTTTATCCGGCCTTTATTACATTCTTGCCCGCC
TGATGAATGCTCATCCGGAATTCGATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCAC
CCCTTGTTACACCGTTTTTCCATGAGCAAACTGAAACGTTTTTCATCGCTCTGGAGTGAATACCACGACGAT
TTCCGGCAGTTTCTACACATATATTCGCAAGATGTGGCGTGTACGGTGAAAACCTGGCCTATTTCCTTA
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Table 20 (continued) Nucleotide sequence of pLenti6/UbC/V5-DEST (SEQ ID NO: 108).

AAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCTGGGTGAGTTTACCAGTTTTGATTTAAA
CGTGGCCAATATGGACAACTTCTTCGCCCCCGTTTTACCAGTGGGCAAATATTATACGCAAGGCGACAAG
GTGCTGATGCCGCTGGCGATTACAGTTTCATCATGCCGTCTGTGATGGCTTCCATGTCGGCAGAATGCTTA
ATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAAAGATCTGGATCCGGCTTACTAAAAGC
CAGATAACAGTATGCGTATTTGCGCGCTGATTTTTGCGGTATAAGAATATATACTGATATGTATACCCGA
AGTATGTCAAAAAGAGGTGTGCTATGAAGCAGCGTATTACAGTGACAGTTGACAGCGACAGCTATCAGTT
GCTCAAGGCATATATGATGTCAATATCTCCGGTCTGGTAAGCACAACCATGCAGAATGAAGCCCGTCGT
TGCGTGCCGAACGCTGGAAAGCGGAAAATCAGGAAGGGATGGCTGAGGTGCGCCGGTTTTATTGAAATGAA
CGGCTCTTTTGTGACGAGAAACAGGGACTGGTGAATGCAGTTTAAGGTTTACACCTATAAAAGAGAGAG
CCGTTATCGTCTGTTTGTGGATGTACAGAGTGATATTATTGACACGCCCGGGCGACGGATGGTGATCCCC
CTGGCCAGTGACGCTGCTGTGTCAGATAAAGTCTCCCGTGAACTTTACCCTGGTGGTGCATATCGGGGATG
AAAGCTGGCGCATGATGACCACCGATATGGCCAGTGTGCCGGTCTCCGTTATCGGGGAAGAAGTGGCTGA
TCTCAGCCACCGCGAAAATGACATCAAAAACGCCATTAACTGATGTTCTGGGGAATATAAATGTCAGGC
TCCGTTATACACAGCCAGTCTGCAGGTCGACCATAGTGACTGGATATGTTGTGTTTTACAGTATTATGTA
GTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTATATCATTTTACGTTTCTCGTTACAGCTT
TCTTGTAAGAGTGGTGTGATATCCAGCAGTGGCGGCCGTCGAGTCTAGAGGGCCCGCGGTTCGAAGG
TAAGCCTATCCCTAACCTCTCCCTCGGTCTCGATTCTACGCGTACCGGTTAGTAATGAGTTTGAATTAA
TTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAGTCCCCAGGCTCCCCAGGCAGGCAGAAATATGCAAA
GCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAGTCCCCAGGCTCCCCAGCAGGCAGAAATATGCA
AAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCCTAACTCCGCCCATCCCGCCCCCTAACTCCG
CCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTTATTTATGCAGAGGCCGAGGCCGCT
CTGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAGCTCCC
GGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAATTAATCATCGGCATAGTATATCG
GCATAGTATAATACGACAAGGTGAGGAACATAACCATGGCCAAGCCTTTGTCTCAAGAAGAATCCACCT
CATTGTAAGAGCAACGGCTACAATCAACAGCATCCCCATCTCTGAAGACTACAGCGTCGCCAGCGCAGCT
CTCTCTAGCGACGGCCGCATCTTCACTGGTGTCAATGTATATCATTTTACTGGGGGACCTTGTGTCAGAAC
TCGTGGTGCTGGGCACTGCTGCTGCTGCGGCAGCTGGCAACCTGACTTGTATCGTCGCGATCGGAAATGA
GAACAGGGGCATCTTGAGCCCCCTGCGGACGGTGCCGACAGGTGCTTCTCGATCTGCATCCTGGGATCAAA
GCCATAGTGAAGGACAGTGATGGACAGCCGACGGCAGTTGGGATTCTGTGAATTGCTGCCCTCTGGTTATG
TGTGGGAGGGCTAAGCACAATTCGAGCTCGGTACCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATC
TTAGCCACTTTTTTAAAAAGAAAAGGGGGGACTGGAAGGGCTAATTCCTCCCAACGAAGACAAGATCTGCT
TTTTGCTTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAAC
CCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTTGCCCCGTCTGTTGTGTGACT
CTGGTAACATAGAGATCCCTCAGACCCTTTTAGTGCAGTGTGGAATCTCTAGCAGTAGTAGTTTCATGTC
TCTTATTATTAGTATTTTATACTTGCAAAAGTGAATATCAGAGAGTGAGAGGAACCTTGTATTGCA
GCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTTCACTGCATT
CTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTATCATGTCTGGCTCTAGCTATCCCGCCCCCTAACT
CCGCCCATCCCGCCCCCTAACTCCGCCCAGTTCGCGCCATTCTCCGCCCATGGCTGACTAATTTTTTTTA
TTTATGCAGAGGCCGAGGCCGCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGG
CCTAGGGACGTACCCAATTCGCCCTATAGTGAGTTCGTATTACGCGCGCTCACTGGCCGTCGTTTTTACAAC
GTCGTGACTGGGAAAACCTTGCGCTTACCCAACCTTAATCGCCTTGACGACATCCCCCTTTCCGACGCTG
GCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGGAC
GCGCCCTGTAGCGGCGCATTAAGCGCGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCA
GCGCCCTAGCGCCCGCTCCTTTTCGCTTTCTTCCCTTCTTCTCGCCACGTTTCGCCGGCTTTCCCCGTCA
AGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCCAAAAACTT
GATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTTCGCCCTTTGACGTTGGAGT
CCACGTTCTTTAATAGTGGACTCTTGTTCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTT
TGATTTATAAGGGATTTTTCGGATTTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAAC
GCGAATTTTAAACAAAATATTAACGCTTACAATTTAGGTGGCACTTTTTCGGGGAAATGTGCGCGGAACCCC
TATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCTGATAAATGCTT
CAATAATATTGAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCTTTTTTTCGG
CATTTTGCTTCCCTGTTTTTGTCTACCCAGAAACGCTGGTGAAAGTAAAGATGCTGAAGATCAGTTGGG
TGCACGAGTGGGTTACATCGAAGTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTTCGCCCCGAAGAA
CGTTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGC
AAGAGCAACTCGGTGCGCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTACCAGTCACAGAAAA

Table 20 (continued) Nucleotide sequence of pLenti6/UbC/V5-DEST (SEQ ID NO: 108).

GCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCG
GCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGATC
ATGTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCAC
GATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACCTGGCGAACTACTTACTCTAGCTTCCCGG
CAACAATTAATAGACTGGATGGAGGCGGATAAAAGTTGCAGGACCACCTTCTGCGCTCGGCCCTTCCGGCTG
GCTGGTTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGCGGTCTCGCGGTATCATTGCAGCACTGGGGCC
AGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAAT
AGACAGATCGCTGAGATAGGTGCCCTCACTGATTAAGCATTTGGTAACCTGTCAGACCAAGTTTACTCATATA
TACTTTAGATTGATTTAAAACTTCATTTTTTAATTTAAAGGATCTAGGTGAAGATCCTTTTTTGATAATCT
CATGACCAAAATCCCTTAACGTGAGTTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGA
TCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAACCACCGCTACCAGCGG
TGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAACCTGGCTTCAGCAGAGCGCAGAT
ACCAAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACA
TACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGG
ACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTTCGTGCACACAGCCAG
CTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCC
GAAGGGAGAAAGGCGGACAGGTATCCCGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTC
CAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTGCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTT
GTGATGCTCGTCAGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCC
TTTTGCTGGCCTTTTGCTCACATGTTCTTTCCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCG
CCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGC
GGAAGAGCGCCCAATACGCAAAACCGCCTCTCCCCGCGCGTTGGCCGATTTCATTAATGCAGCTGGCAGGAC
AGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCAC
CCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTACAC
AGGAAACAGCTATGACCATGATTACGCCAAGCGCGCAATTAACCCTCACTAAAGGGAACAAAAGCTGGAG
CTGCAAGCTT

Please amend Table 21 on pages 443-445 as follows:

Table 21: Nucleotide sequence of plasmid pLP1 (SEQ ID NO: 109).

TTGGCCCATTCATACGTTGTATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATTACC
GCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTTCATAGCCCA
TATATGGAGTTCCGCGTTACATAAATTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCC
CATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGT
GGAGTATTTACGGTAAACTGCCCCTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATT
GACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCTACTT
GGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGTATGCGGTTTTGGCAGTACATCAATGGGCG
TGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGG
CACCAAAATCAACGGGACTTTCCAATATGTCGTAACAATCCGCCCCATTGACGCAATGGGCGGTAGGC
GTGTACGGTGGGAGGTCTATATAAGCAGAGTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCC
ACGCTGTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCCCTCGAAGCTTACATGTGGTACC
GAGCTCGGATCCTGAGAACTTCAGGGTGAGTCTATGGGACCCTTGATGTTTTCTTTCCCCTTCTTTTCTA
TGGTTAAGTTCATGTATAGGAAGGGGAGAAGTAACAGGGTACACATATTGACCAATCAGGGTAATTTT
GCATTTGTAATTTTAAAAATGCTTCTTCTTTTAATATACTTTTTTGTATTCTTATTTCTAATACTTT
CCCTAATCTCTTTCTTTCAGGGCAATAATGATACAATGTATCATGCCTCTTTCGACCATTTCTAAAGAATA
ACAGTGATAATTTCTGGGTAAAGGCAATAGCAATATTTCTGCATATAAATATTTCTGCATATAAATTTGTA
ACTGATGTAAGAGGTTTCATATTGCTAATAGCAGCTACAATCCAGCTACCATTCTGCTTTTATTTTATGG
TTGGGATAAGGCTGGATTATTCTGAGTCCAAGCTAGGCCCTTTTGCTAATCATGTTTCATACCTCTTATCT
TCCTCCACAGCTCCTGGGCAACGTGCTGGTCTGTGTGCTGGCCCATCACTTTGGCAAAGCACGTGAGAT
CTGAATTCGAGATCTGCCGCCGCCATGGGTGCGAGAGCGTCAGTATTAAGCGGGGGAGAATTAGATCGAT
GGGAAAAAATTCGGTTAAGGCCAGGGGGAAAGAAAAATATAAATTAAAACATATAGTATGGGCAAGCAG
GGAGCTAGAACGATTTCGAGTTAATCCTGGCCTGTTAGAAACATCAGAAGGCTGTAGACAAATACTGGGA
CAGCTACAACCATCCCTTCAGACAGGATCAGAAGAACTTAGATCATTATATAATACAGTAGCAACCTCT
ATTGTGTGCATCAAAGGATAGAGATAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAAGAGCAAAA
CAAAAGTAAGAAAAAGCACAGCAAGCAGCAGCTGACACAGGACACAGCAATCAGGTGAGCCAAAAATTAC
CCTATAGTGCAGAACATCCAGGGGCAATGGTACATCAGGCCATATCACCTAGAACTTTAAATGCATGGG
TAAAGTAGTAGAAGAGAAGGCTTTCAGCCAGAAAGTGATACCCATGTTTTTCAGCATTATCAGAAGGAGC
CACCCCAAGATTTAAACACCATGCTAAACACAGTGGGGGGACATCAAGCAGCCATGCAATGTTAAAA
GAGACCATCAATGAGGAAGCTGCAGAAATGGGATAGAGTGCATCCAGTGCATGCAGGGCCTATTGCACCAG
GCCAGATGAGAGAACCAAGGGGAAGTGACATAGCAGGAACCTACTAGTACCCTTCAGGAACAAATAGGATG
GATGACACATAATCCACCTATCCCAGTAGGAGAAATCTATAAAGATGGATAATCCTGGGATTAAATAAA
ATAGTAAGAATGTATAGCCCTACCAGCATTCTGGACATAAGACAAGGACCAAGGAACCTTTAGAGACT
ATGTAGACCGATTCTATAAACTCTAAGAGCCGAGCAAGCTTCACAAGAGGTAAAAAATTGGATGACAGA
AACCTTGTTGGTCCAAAATGCGAACCCAGATTGTAAGACTATTTTAAAGCATTGGGACCAGGAGCGACA
CTAGAAGAAATGATGACAGCATGTGAGGGAGTGGGGGGACCCGGCCATAAAGCAAGAGTTTTGGCTGAAG
CAATGAGCCAAGTAACAAATCCAGCTACCATAATGATACAGAAAGGCAATTTTAGGAACCAAGAAAGAC
TGTTAAGTGTTCATTTGTGGCAAAGAAGGGCACATAGCCAAAAATTGCAGGGCCCCCTAGGAAAAAGGGC
TGTTGGAATGTGGAAAGGAAGGACACCAATGAAAGATTGTACTGAGAGACAGGCTAATTTTTTAGGGA
AGATCTGGCCTTCCCAAGGAAGGGCAGGGAATTTCTTCAGAGCAGACCAGAGCCAACAGCCCCACC
AGAAGAGAGCTTCAGGTTTGGGGAAGAGACAACAACTCCCTCTCAGAAGCAGGAGCCGATAGACAAGGAA
CTGTATCCTTTAGCTTCCCTCAGATCACTCTTGGCAGCGACCCCTCGTCACAATAAAGATAGGGGGGCA
ATTAAAGGAAGCTCTATTAGATACAGGAGCAGATGATACAGTATTAGAAGAAATGAATTTGCCAGGAAGA
TGGAAACCAAAAATGATAGGGGGAATTGGAGGTTTTATCAAAGTAAGACAGTATGATCAGATACTCATAG
AAATCTGCGGACATAAAGCTATAGGTACAGTATTAGTAGGACCTACACCTGTCAACATAATTGGAAGAAA
TCTGTTGACTCAGATTGGCTGCCTTTAAATTTTCCATTAGTCTATTGAGACTGTACCAGTAAATTA
AAGCCAGGAATGGATGGCCCCAAAAGTTAAACAATGGCCATTGACAGAAGAAAAATAAAGCATTAGTAG
AAATTTGTACAGAAATGGAAAAGGAAGGAAAAATTTCAAAAATTGGGCCTGAAAATCCATACAATACTCC
AGTATTTGCCATAAAGAAAAAAGACAGTACTAAATGGAGAAAATTAGTAGATTTTCAGAGAACTTAATAAG
AGAACTCAAGATTTCTGGGAAGTTCAATTAGGAATACCACATCCTGCAGGGTTAAACAGAAAAAATCAG
TAACAGTACTGGATGTGGGCGATGCATATTTTCAGTTCCCTTAGATAAAGACTTCAGGAAGTATACTGC
ATTTACCATACCTAGTATAAACAATGAGACACCAGGGATTAGATATCAGTACAATGTGCTTCCACAGGGA
TGGAAAGGATCACCAGCAATATTCAGTGTAGCATGACAAAAATCTTAGAGCCTTTTAGAAAAACAAATC

Table 21 (continued) Nucleotide sequence of plasmid pLP1 (SEQ ID NO: 109).

CAGACATAGTCATCTATCAATACATGGATGATTTGTATGTAGGATCTGACTTAGAAATAGGGCAGCATAG
AACAAAAATAGAGGAACTGAGACAACATCTGTTGAGGTGGGGATTTACCACACCAGACAAAAAACATCAG
AAAGAACCTCCATTCTTTGGATGGGTATGAACTCCATCCTGATAAATGGACAGTACAGCCTATAGTGC
TGCCAGAAAAGGACAGCTGGACTGTCAATGACATACAGAAATTAGTGGGAAAATTGAATTGGGCAAGTCA
GATTTATGCAGGGATTAAAGTAAGGCAATTATGTAAACTTCTTAGGGGAACCAAAGCACTAACAGAAGTA
GTACCACTAACAGAAGAAGCAGAGCTAGAACTGGCAGAAAACAGGGAGATTCTAAAAGAACCGGTACATG
GAGTGTATTATGACCCATCAAAAGACTTAATAGCAGAAATACAGAAGCAGGGGCAAGGCCAATGGACATA
TCAAATTTATCAAGAGCCATTTAAAAATCTGAAAACAGGAAAGTATGCAAGAATGAAGGGTGCCCACT
AATGATGTGAAAACAATTAACAGAGGCAGTACAAAAAATAGCCACAGAAAGCATAGTAATATGGGGAAAAGA
CTCCTAAATTTAAATTACCCATACAAAAGGAAACATGGGAAGCATGGTGGACAGAGTATTGGCAAGCCAC
CTGGATTCTGTAGTGGGAGTTTGTCAATACCCCTCCCTTAGTGAAGTTATGGTACCAGTTAGAGAAAGAA
CCCATAATAGGAGCAGAACTTCTATGTAGATGGGGCAGCCAATAGGGAACTAAATTAGGAAAAGCAG
GATATGTAAGTACAGAGGAAGACAAAAAGTTGTCCCCCTAACGGACACAACAAATCAGAAGACTGAGTT
ACAAGCAATTCTAGCTTTGCAGGATTCGGGATTAGAAGTAAACATAGTGACAGACTCACAATATGCA
TTGGGAATCATTCAAGCACAACCAGATAAGAGTGAATCAGAGTTAGTCAGTCAAATAATAGAGCAGTTAA
TAAAAAAGGAAAAGTCTACCTGGCATGGGTACCAGCACACAAGGAATTGGAGGAAATGAACAAGTAGA
TAAATTGGTCAGTGCTGGAATCAGGAAAGTACTATTTTATAGATGGAATAGATAAGGCCCAAGAAGAACAT
GAGAAATATCACAGTAATTGGAGAGCAATGGCTAGTGATTTTAACTACCACCTGTAGTAGCAAAAAGAAA
TAGTAGCCAGCTGTGATAAATGTCAGCTAAAAGGGGAAGCCATGCATGGACAAGTAGACTGTAGCCCAGG
AATATGGCAGCTAGATTGTACACATTTAGAAGGAAAAGTTATCTTGGTAGCAGTTTATGTAGCCAGTGGA
TATATAGAAGCAGAAGTAATTCAGCAGAGACAGGGCAAGAAACAGCATACTTCTCTTAAATTAGCAG
GAAGATGGCCAGTAAAAACAGTACATACAGACAATGGCAGCAATTTACCAGTACTACAGTTAAGGCCGC
CTGTTGGTGGGCGGGGATCAAGCAGGAATTTGGCATTCCTTACAATCCCCAAAGTCAAGGAGTAATAGAA
TCTATGAATAAAGAATTAAAGAAAAATTATAGGACAGGTAAGAGATCAGGCTGAACATCTTAAGACAGCAG
TACAAATGGCAGTATTCATCCACAATTTTAAAGAAAAGGGGGGATTGGGGGGTACAGTGCAGGGGAAAG
AATAGTAGACATAATAGCAACAGACATACAACTAAAGGAATTACAAAACAAATTACAAAAATTCAAAAAT
TTTTCGGGTTTATTACAGGGACAGCAGAGATCCAGTTTGGAAAGGACCAGCAAAGCTCCTCTGGAAAGGTG
AAGGGGCAGTAGTAATACAAGATAATAGTGACATAAAAGTAGTGCCAAGAAGAAAAGCAAAGATCATCAG
GGATTATGGAACACAGATGGCAGGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTAACACATGGAA
TTCCGGAGCGGCCGAGGAGCTTGTTCCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATGGGCGCAGCG
TCAATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACAATTTGCTGA
GGGCTATTGAGGCGCAACAGCATCTGTTGCACTCACAGTCTGGGGCATCAAGCAGCTCCAGGCAAGAAT
CCTGGCTGTGGAAGATACCTAAAGGATCAACAGCTCCTGGGGATTGGGGTTGCTCTGGAATACTCAT
TGCACTAGCTGTGCTGCTGGAATGCTAGTTGGAGTAATAAATCTCTGGAACAGATTGGAAATCAGCA
CCTGGATGAGTGGGACAGAGAAATTAACAATTACACAAGCTTCCGCGGAATTACCCCCACAGTGCAGG
CTGCCTATCAGAAAGTGGTGGCTGGTGTGGCTAATGCCCTGGCCCAAGTATCACTAAGCTCGCTTTCT
TGCTGTCCAATTTCTATTAAAGGTTCCCTTGTTCCTTAAGTCCAATACTAACTGGGGGATATTATGAA
GGGCCTTGAGCATCTGGATTCTGCCTAATAAAAAACATTTATTTTCATTGCAATGATGTATTTAAATTAT
TTCTGAATATTTTACTAAAAAGGGAATGTGGGAGGTGAGTGCATTTAAACATAAAGAAATGAAGAGCTA
GTTCAAACCTTGGGAAAAATACACTATATCTTAACTCCATGAAAGAAGGTGAGGCTGCAACAGCTAATG
CACATTGGCAACAGCCCCGTATGCCTATGCCCTTATTCATCCCTCAGAAAAGGATTCAAGTAGAGGCTTGA
TTTGGAGGTTAAAGTTTGTCTATGCTGTATTTTACATTACTTATTGTTTTAGCTGTCTCATGAATGTCT
TTTCACTACCCATTGCTTATCCTGCATCTCTCAGCCTTGACTCCACTCAGTTCTCTTGTCTTAGAGATAC
CACCTTTCCCTGAAAGTGTTCCTTCCATGTTTTACGGCGAGATGGTTTTCTCCTCGCCTGGCCACTCAGCC
TTAGTTGTCTCTGTTGTCTTATAGAGGTCTACTTGAAGAAGGAAAAACAGGGGGCATGGTTTACTGTCC
TGTGAGCCCTTCTTCCCTGCCTCCCCCACTCACAGTGACCCGGAATCCCTCGACATGGCAGTCTAGCACT
AGTGCAGGCCGAGATCTGCTTCCCTCGCTCACTGACTCGCTCGCTCGGTCTCGGCTGCGGCGAGCGGT
ATCAGCTCACTCAAAGGCGGTAAACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGA
GCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCC
CCCCTGACGAGCATCAAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATA
CCAGGCGTTTTCCCTGGAAGCTCCCTCGTGCCTCTCCTGTTCCGACCCTGCGCTTACCGGATACCTG
TCCGCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCCGTTGT
AGGTCTGTTCTGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTTCCAGCCGACCGCTGCGCCTTATCCGG
TAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGG
ATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTA

Table 21 (continued) Nucleotide sequence of plasmid pLP1 (SEQ ID NO: 109).

GAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTG
ATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAA
AAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACACAGTT
AAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTT
TAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCT
ATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATAC
GGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGGAGACCCACGCTCACCGGCTCCAGATTT
ATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATC
CAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTG
CCATTGCTACAGGCATCGTGGTGTACGCTCGTCGTTTGGTATGGCTTCATTAGCTCCGGTTCCCAACG
ATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTT
GTCAGAAGTAAGTTGGCCGAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCA
TGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGATGCG
GCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTG
CTCATCATTGGAAAACGTTCTTCGGGGCGAAAACCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCTGA
TGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAA
AACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTC
CTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTT
AGAAAAATAAACAAATAGGGGTTCGCGCACATTTCCCCGAAAAGTGCCACCTGACGGGATCCCCTGAGG
GGGCCCCCATGGGCTAGAGGATCCGGCCTCGGCCTCTGCATAAATAAAAAAATTAGTCAGCCATGAGC

Please amend Table 22 on pages 446 and 447 as follows:

Table 22: Nucleotide sequence of plasmid pLP2 (SEQ ID NO: 110).

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AATGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATGCCTTACAA
GGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGC
AACAGACGGGTCTGACATGGATTGGACGAACCACTGAATTCCGCATTGCAGAGATATTGTATTTAAGTGC
CTAGCTCGATACAATAAACGCCATTTGACCATTACCACATTGGTGTGCACCTCCAAGCTCGAGCTCGTT
TAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAGACACCGGGACCG
ATCCAGCCTCCCCCTCGAAGCTAGTCGATTAGGCATCTCCTATGGCAGGAAGAAGCGGAGACAGCGACGAA
GACCTCCTCAAGGCAGTCAGACTCATCAAGTTTTCTCTATCAAAGCAACCCACCTCCCAATCCCGAGGGGA
CCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAGAGAGAGACAGAGACAGATCCATTCGATTAGTGA
ACGGATCCTTAGCACTTATCTGGGACGATCTGCGGAGCCTGTGCCTCTTCAGCTACCACCGCTTGAGAGA
CTTACTCTTGATTGTAACGAGGATTGTGGAACCTTCTGGGACGCAGGGGGTGGGAAGCCCTCAAATATTGG
TGGAATCTCCTACAATATTGGAGTCAGGAGCTAAAGAATAGTGCTGTTAGCTTGCTCAATGCCACAGCTA
TAGCAGTAGCTGAGGGGACAGATAGGGTTATAGAAGTAGTACAAGAAGCTTGCCACTGGCCGTCGTTTTA
CAACGTCGTGATCTGAGCCTGGGAGATCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAGC
TTGCCTTGAGTGCTTCAAGTAGTGTGTGCCGCTCTGTTGTGTGACTCTGGTAACTAGAGATCAGGAAAA
CCTGGCGTTACCCAACCTTAATCGCCTTGACAGCACATCCCCCTTCGCCAGCTGGCGTAATAGCGAAGAGG
CCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCGCCTGATGCGGTATTTTCT
CCTTACGCATCTGTGCGGTATTTACACCCGCATACGTCAAAGCAACCATAGTACGCGCCCTGTAGCGGCG
CATTAAAGCGCGGCGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGC
TCCTTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTGCGCGGCTTTCCCGCTCAAGCTCTAAATCGGGG
CTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCCAAAAAAGCTTGAATTTGGGTGATGGTT
CACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAG
TGGACTCTTGTTCCAACTGGAACAACACTCAACCCTATCTCGGGCTATTCTTTTGATTTATAAGGGATT
TTGCCGATTTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTAACGCGAATTTTAACAAAA
TATTAACGTTTACAATTTTATGGTGCACTCTCAGTACAATCTGCTCTGATGCGGCATAGTTAAGCCAGCC
CCGACACCCGCCAACACCCGCTGACGCGCCCTGACGGGCTTGCTGCTCCCGGCATCCGCTTACAGACAA
GCTGTGACCGTCTCCGGGAGCTGCATGTGTGAGAGTTTTACCGTCATCACCGAAACGCGCGAGACGAA
AGGGCCTCGTGATACGCCATTTTTTATAGGTTAATGTGATGATAATAATGGTTTCTTAGACGTCAGGTGG
CACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCG
CTCATGAGACAATAACCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATT
TCCGTGTGCGCCCTATTCCCTTTTTTGCGGCATTTTGCCCTTCTGTTTTTTGCTCACCCAGAAACGCTGGT
GAAAGTAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGT
AAGATCCTTGAGAGTTTTCGCCCCGAAGAAGCTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTG
GCGCGGTATTATCCCGTATTGACGCGGGGCAAGAGCACTCGGTCGCGGCATACACTATTTCTCAGATGA
CTTGGTGAGTACTACCACTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGT
GCTGCCATAACCATGAGTGATAACACTGCGGCCAATTACTTCTGACAACGATCGGAGGACCGAAGGAGC
TAACCGCTTTTTTGCAACAACATGGGGGATCATGTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGA
AGCCATACCAAACGACGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACCTATTA
ACTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAG
GACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTTATTGCTGATAAATCTGGAGCCGCTGAGCGTGG
GTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACG
GGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATT
GGTAAGTGTGACAGCAAGTTTACTCATATATACTTTAGATTGATTTAAACTTCAATTTTAAATTTAAAG
GATCTAGGTGAAGATCCTTTTGTATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGA
GCGTCAGACCCCGTAGAAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCT
TGCAAAACAAAAAAACCACCGCTACCAGCGGTGGTTTGTGTTGCCGGATCAAGAGCTACCAACTCTTTTTCC
GAAGGTAAGTGGCTTACGAGAGCGCAGATACCAAACTACTGTTCTTCTAGTGATAGCCGTAGTTAGGCCAC
CACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCACTGGCTGCTGCCA
GTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGTCCGGG
CTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAG
CGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGG
TCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGAAACGCCTGGTATCTTTATAGTCTGTGCGGTT
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Table 22 (continued) Nucleotide sequence of plasmid pLP2 (SEQ ID NO: 110).

TCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCC
AGCAACGCGGCCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTAT
CCCCTGATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGAC
CGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGT
TGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAA
TTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTG
TGGAATTGTGAGCGGATAACAATTCACACAGGAAACAGCTATGACATGATTACGAATTCGATGTACGGG
CCAGATATACGCGTATCTGAGGGGACTAGGGTGTGTTTAGGCGAAAAGCGGGGCTTCGGTTGTACGCGGT
TAGGAGTCCCCTCAGGATATAGTAGTTTCGCTTTTGCATAGGGAGGGGA

Please amend Table 23 on pages 448 and 449 as follows:

Table 23: Nucleotide sequence of plasmid pLP/VSVG (SEQ ID NO: 111).

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TTGGCCCATTTGCATACGTTGTATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATTACC
GCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCA
TATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCCGCTGGCTGACCGCCCAACGACCCCCGCC
CATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCATTGACGTCAATGGGT
GGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGATCATATGCCAAGTACGCCCCCTATT
GACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTT
GGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCG
TGGATAGCGGTTTGACTCACGGGGATTTCGAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTGGG
CACCAAAATCAACGGGACTTTCGAAATGTGTAACAACCTCCGCCCCATTGACGCAAATGGGCGGTAGGC
GTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCC
ACGCTGTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCCCCTCGAAGCTTACATGTGGTACC
GAGCTCGGATCCTGAGAACTTCAGGGTGAGTCTATGGGACCCTTGATGTTTTCTTTCCCTTCTTTTCTA
TGGTTAAGTTCATGTCATAGGAAGGGGAGAAGTAACAGGGTACACATATTGACCAAATCAGGGTAATTTT
GCATTTGTAATTTTAAAAATGCTTTCTTCTTTTAATATACTTTTTGTGTTTATCTTATTTCTAATACTTT
CCCTAATCTCTTTCTTTTCAGGGCAATAATGATACAAATGATCATGCCTCTTTGCACCACTTCTAAAGAATA
ACAGTGATAATTTCTGGGTTAAGGCAATAGCAATATTTCTGCATATAAAATATTTCTGCATATAAATTGTA
ACTGATGTAAGAGGTTTCATATTGCTAATAGCAGCTACAATCCAGCTACCATTCTGCTTTTATTTTATGG
TTGGGATAAGGCTGGATTATTCTGAGTCCAAGCTAGGCCCTTTTGCTAATCATGTTTCATACCTCTTATCT
TCCTCCACAGCTCCTGGGCAACGTGCTGGTCTGTGTGCTGGCCCATCACTTTGGCAAAGCACGTGAGAT
CTGAATTTCTGACACTATGAAGTGCCTTTTGTACTTAGCCTTTTATTCATTGGGGTGAATTGCAAGTTCA
CCATAGTTTTTCCACACAACCAAAAAGGAAACTGGAAAAATGTTCCCTTCTAATTACCATTATTGCCCGTC
AAGCTCAGATTTAAATTGGCATAATGACTTAATAGGCACAGCCTTACAAGTCAAAATGCCCAAGAGTCAC
AAGGCTATTCAAGCAGACGGTTGGATGTGTCTATGCTTCCAAATGGGTCACTACTTGTGATTTCCGCTGGT
ATGGACCGAAGTATATAACACATTCCATCCGATCCTTCACTCCATCTGTAGAACAATGCAAGGAAAGCAT
TGAACAAACGAAACAGGAACCTTGGCTGAATCCAGGCTTCCCTCCTCAAAGTTGTGGATATGCAACTGTG
ACGGATGCCGAAGCAGTGATTGTCCAGGTGACTCCTCACCATGTGCTGGTTGATGAATACACAGGAGAAT
GGGTTGATTACAGTTCATCAACGGAATGCAGCAATTACATATGCCCCACTGTCCATAACTCTACAAC
CTGGCATTCTGACTATAAGGTCAAAGGGCTATGTGATTCTAACCTCATTTCATGGACATCACCTTCTTC
TCAGAGGACGGAGAGCTATCATCCCTGGGAAAGGAGGGCACAGGGTTCAGAAGTAATACTTTTGCTTATG
AAACTGGAGGCAAGGCCTGCAAAATGCAATACTGCAAGCATTGGGGAGTCAGACTCCCATCAGGTGTCTG
GTTTCGAGATGGCTGATAAGGATCTCTTTGCTGCAGCCAGATTCCCTGAATGCCAGAAGGGTCAAGTATC
TCTGTCTCCATCTCAGACCTCAGTGGATGTAAGTCTAATTCAGGACGTTGAGAGGATCTTGATTATTCCC
TCTGCCAAGAACTTGAGCAAAATCAGAGCGGGTCTTCAATCTCTCCAGTGGATCTCAGTACTCTTGC
TCCTAAAAACCCAGGAACCGTCTTCTTTTACCATAATGGAATGGTACCTTAAATACTTTGAGACAGAG
TACATCAGAGTCGATATTGCTGCTCCAATCCTCTCAAGAATGGTCGGAATGATCAGTGGAACTACCACAG
AAAGGGAATGTGGGATGACTGGGCACCATATGAAGACGTGGAAATTTGGACCCAATGGAGTTCTGAGGAC
CAGTTCAGGATATAAGTTTCTTTTATACATGATTGGACATGGTATGTTGGACTCCGATCTTCATCTTAGC
TCAAAGGCTCAGGTGTTTGAACATCCTCACATTCAAGACGCTGCTTCGCAACTTCTTGATGATGAGAGTT
TATTTTTTGGTGATACTGGGCTATCCAAAAATCCAATCGAGCTTGTAGAAGGTTGGTTTCAGTAGTTGGAA
AAGCTCTATTGCCTCTTTTTCTTTATCATAGGGTTAATCATTGGACTATTCTTGGTTCTCCGAGTTGGT
ATCCATCTTTGCATTAAATTAAAGCACACCAAGAAAAGACAGATTTATACAGACATAGAGATGAACCGAC
TTGAAAGTAACCTCAATTAATTTGAGTTTTTAATTTTTTATGAAAAAAGGAAATCACTTTGTGATACCATG
TCAAAGAGGCTCAATTAATTTGAGTTTTTAATTTTTTATGAAAAAAGGAAATCACTTTGTGATACCATG
CACCAGTGCAGGCTGCCTATCAGAAAGTGGTGGCTGGTGTGGCTAATGCCCTGGCCCAACAAGTATCACTA
AGCTCGCTTTCTTGCTGTCCAATTTCTATTAAAGGTTCTTTTGTTCCTAAGTCCAACCTACTAACTGGG
GGATATTATGAAGGGCCTTGAGCATCTGGATTCTGCCTAATAAAAAACATTTATTTTCATTGCAATGATG
TATTTAAATTATTTCTGAATATTTTACTAAAAAGGGAATGTGGGAGGTGAGTGCATTTAAACATAAAGA
AATGAAGAGCTAGTTCAAACCTTGGGAAATACACTATATCTTAAACTCCATGAAAGAAGGTGAGGCTGC
AAACAGCTAATGCACATTGGCAACAGCCCCTGATGCCTATGCCTTATTCATCCCTCAGAAAAGGATTCAA
GTAGAGGCTTGATTTGGAGGTTAAAGTTTTGCTATGCTGTATTTTACATTACTTATGTTTTAGCTGTCC
TCATGAATGTCTTTTCACTACCCATTTGCTTATCCTGCATCTCTCAGCCTTGACTCCACTCAGTTCTCTT
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Table 23 (continued) Nucleotide sequence of plasmid pLP/VSVG
(SEQ ID NO: 111).

GCTTAGAGATACCACCTTTCCCTGAAGTGTTCCCTTCATGTTTTACGGCGAGATGGTTTCTCCTCGCCT
GGCCACTCAGCCTTAGTTGTCTCTGTTGTCTTATAGAGGTCTACTTGAAGAAGGAAAAACAGGGGGCATG
GTTTGACTGTCTGTGAGCCCTTCTTCCCTGCCTCCCCACTCACAGTGACCCGGAATCCCTCGACATGG
CAGTCTAGCACTAGTGCGGCCGCAGATCTGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCTCGGCT
GCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGA
AAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCC
ATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGG
ACTATAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCCTGCCGCTT
ACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATC
TCAGTTCGGTGTAGGTCTGCTCCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTTCAGCCCGACCGCTG
CGCCTTATCCGGTAAGTATCGTCTTGAGTCCAACCCGTAAGACACGACTTATCGCCACTGGCAGCAGCC
ACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACT
ACGGCTACACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGT
TGGTAGCTCTTGATCCGGCAAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGAAGCAGCAGATT
ACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGCTCTGACGCTCAGTGGAACG
AAAACCTACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTA
AAAATGAAGTTTAAATCAATCTAAAGTATATATGAGTAACTTGGTCTGACAGTTACCAATGCTTAATC
AGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGA
TAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATAACCGCGAGACCCACGCTCACC
GGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTGCAACTTTA
TCCGCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTTCGCCAGTTAATAGTTTGC
GCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCTGTTGGTATGGCTTCATTCAGCTC
CGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGT
CCTCCGATCGTTGTGCAAGTAAGTTGGCCGAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATT
CTCTTACTGTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGA
ATAGTGATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGA
ACTTTAAAAGTGCTCATCATTTGGAACCGTTCTTCGGGGCGAAACTCTCAAGGATCTTACCGCTGTTGA
GATCCAGTTCGATGTAACCCACTCGTGACCCAACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTTC
TGGGTGAGCAAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATA
CTCATACTCTTCTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATAT
TTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGG
GATCCCCCTGAGGGGGCCCCCATGGGCTAGAGGATCCGGCCTCGGCCTCTGCATAAAATAAAAAAATTAGT
CAGCCATGAGC

Please amend Table 28 on pages 450 and 451 as follows:

Table 28: Nucleotide sequence of plasmid pcDNATM6.2/V5-DEST (SEQ ID NO: 112).

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GACGGATCGGGAGATCTCCCGATCCCCTATGGTGCACCTCTCAGTACAATCTGCTCTGATGCCGCATAGTT
AAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTGCGTGAGTAGTGCGCGAGCAAAATTTAAGCTACA
ACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGCTTCGCG
ATGTACGGGCCAGATATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTC
ATTAGTTCATAGCCCATATATGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCGCTGGCTGACCG
CCCAACGACCCCGCCCATTTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCC
ATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCCTTGGCAGTACATCAAGTGTATCATATGCC
AAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACCTTA
TGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGC
AGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCGAAGTCTCCACCCCATTTGACGTCAA
TGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTCCGCCCATTTGACG
CAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCA
CTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGTTAAGCTATCA
ACAAGTTTGTACAAAAAGCTGAACGAGAAACGTAAATATGATATAAATATCAATATATTAAATTAGATTT
TGCATAAAAAACAGACTACATAATACTGTAAACACACATATCCAGTCACTATGAATCAACTACTTAGA
TGGTATTAGTGACCTGTAGTTCGACCGACAGCCTTCCAAATGTTCTTCGGGTGATGCTGCCAACTTAGTCG
ACCGACAGCCTTCCAAATGTTCTTCTCAAACGGAATCGTCGTATCCAGCCTACTCGCTATTGTCCTCAAT
GCCGTATTAAATCATAAAAAGAAATAAGAAAAAGAGGTGCGAGCCTCTTTTTTGTGTGACAAAATAAAAA
CATCTACCTATTTCATATACGCTAGTGTATAGTCTGAAAATCATCTGCATCAAGAACAATTTTCAAACT
CTTATACTTTTCTCTTACAAGTCGTTCCGGCTTCATCTGGATTTTCAGCCTCTATACTTACTAAACGTGAT
AAAGTTTCTGTAATTTCTACTGTATCGACCTGCAGACTGGCTGTGTATAAGGGAGCCTGACATTTATATT
CCCCAGAACATCAGGTTAATGGCGTTTTTGTATGTCATTTTCGCGGTGGCTGAGATCAGCCACTTCTTCCC
CGATAACGGAGACCCGACACTGGCCATATCCGTGGTCATCATGCGCCAGCTTTCATCCCCGATATGCAC
CACCGGGTAAAGTTACGGGAGACTTTATCTGACAGCAGACGTGCATGCGCCAGGGGGATCACCATTCCGT
CGCCCCGGGCGTGTCAATAATATCACTCTGTACATCCACAAACAGACGATAACGGCTCTCTCTTTTATAGG
TGTAACCTTAAACTGCATTTTACCAGTCCCTGTTCTCGTCAGCAAAAAGAGCCGTTTCAATTTCAATAAACC
GGGCGACCTCAGCCATCCCTTCTGATTTTCCGCTTTCCAGCGTTCGGCACGCAGACGACGGGCTTCATT
CTGCATGGTTGTGCTTACCAGACCGGAGATATTGACATCATATATGCCTTGAGCAACTGATAGCTGTGCG
TGTCAACTGTCACTGTAATACGCTGCTTCATAGCACACCTCTTTTGTACATACTTCGGGTATACATATCA
GTATATATTCTTATACCGCAAAAATCAGCGCGCAAATACGCATACTGTTATCTGGCTTTTAGTAAGCCGG
ATCCACGCGATTACGCCCCGCCCTGCCACTCATCGCAGTACTGTTGTAATTCATTAAGCATTTCTGCCGAC
ATGGAAGCCATCACAGACGGCATGATGAACCTGAATCGCCAGCGGCATCAGCACCTTGTGCGCTTGCGTA
TAATATTGCCCCATGGTGAACACGGGGCGAAGAAGTTGTCCATATTGGCCACGTTTAAATCAAAACTGG
TGAAACTCACCCAGGGATTGGCTGAGACGAAAAACATATTCTCAATAAACCCCTTAGGGAAATAGGCCAG
GTTTTTACCCTAACACGCCACATCTTGCGAATATATGTGTAGAAACTGCCGGAATCGTCGTGGTATTCA
CTCCAGAGCGATGAAAACGTTTTCAGTTTGCTCATGGAAAACGGTGTAACAAGGGTGAACACTATCCATA
TCACCAGCTCACCGTCTTTCATTGCCATACGGAATTCGGATGAGCATTCATCAGGCGGGCAAGAATGTG
AATAAAGGCCGGATAAAACTTGTGCTTATTTTTCTTTACGGTCTTTAAAAAGGCCGTAATATCCAGCTGA
ACGGTCTGGTTATAGGTACATTGAGCAACTGACTGAAATGCCTCAAAATGTTCTTTACGATGCCATTGGG
ATATATCAACGGTGGTATATCCAGTGATTTTTTTCTCCATTTTAGCTTCCTTAGCTCCTGAAAATCTCGA
TAACTCAAAAAATACGCCCGGTAGTGATCTTATTTTATTATGGTGAAAGTTGGAACCTCTTACGTGCCGA
TCAACGCTCTCATTTTCGCCAAAAGTTGGCCAGGGCTTCCCGGTATCAACAGGGACACCAGGATTTATTT
ATTCTGCGAAGTGATCTTCCGTCACAGGTATTTTATTCGGCGCAAGTGCGTCGGGTGATGTTGTGTTTTACAG
TATTATGTAGTCTGTTTTTTATGCAAAATCTAATTTAATATATTGATATTTATATCATTTTACGTTTCTC
GTTTACGCTTTCTGTACAAAGTGGTTGATCTAGAGGGCCCGCGGTTTGAAGGTAAGCCTATCCCTAACCC
TCTCCTCGGTCTCGATTCTACGCGTACCGGTTAGTAATGAGTTTAAACGGGGGAGGCTAACTGAAACACG
GAAGGAGACAATACCGGAAGGAACCCGCGCTATGACGGCAATAAAAAGACAGAATAAAACGCACGGGTGT
TGGGTGCTTTGTTTCATAAACGCGGGGTTCCGGTCCCAGGGCTGGCACTCTGTGATACCCACCGAGACCC
CATTGGGGCCAATACGCCCGGCTTCTTCTTTTTCCCCACCCCAAGTTCCGGGTGAAGGCCAG
GGCTCGCAGCCAACGTCCGGGCGGACGGCCCTGCCATAGCAGATCTGCGCAGCTGGGGCTCTAGGGGTA
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Table 28 (continued) Nucleotide sequence of plasmid pcDNA™6.2/V5-DEST
(SEQ ID NO: 112).

TCCCCACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACA
CTTGCCAGCGCCCTAGCGCCCGCTCCTTTTCGCTTTCTTCCCTTCCCTTCTCGCCACGTTCCGCCGGCTTTC
CCCGTCAAGCTCTAAATCGGGGCATCCCTTTAGGGTTCGGATTTAGTGCTTTACGGCACCTCGACCCCAA
AAACTTGGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTTCGCCCTTTGACG
TTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCT
ATTCTTTTGATTTATAAGGGATTTTGGGGATTTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAA
ATTTAACGCGAATTAATTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAGTCCCCAGGCTCCCCAGCAG
GCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAGTCCCCAGGCTCCCCAGC
AGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAGTCCCCAGGCTCCCCAGC
CCGCCCTTAACCTCGCCCGAGTTCCGCCCATTTCTCGCCCCATGGCTGACTAATTTTTTTTTATTTATGCAG
AGGCCGAGGCCGCTCTGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTT
TTGCAAAAAGCTCCCGGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAATTAATCAT
CGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACATAACCATGGCCAAGCCTTTGTCTCA
AGAAGAATCCACCCTCATTGAAAGAGCAACGGCTACAATCAACAGCATCCCCATCTCTGAAGACTACAGC
GTCGCCAGCGCAGCTCTCTCTAGCGACGGCCGCATCTTCACTGGTGTCAATGTATATCATTTTACTGGGG
GACCTTGTGCAGAACTCGTGGTGTCTGGGCACTGCTGCTGCTGCGGCAGCTGGCAACCTGACTTGTATCGT
CGCGATCGGAAATGAGAACAGGGGCATCTTGAGCCCCGCGGACGGTGCCGACAGGTGCTTCTCGATCTG
CATCTTGGGATCAAAGCCATAGTGAAGGACAGTGATGGACAGCCGACGGCAGTTGGGATTCTGTGAATTGC
TGCCCTCTGGTTATGTGTGGGAGGGCTAAGCACTTCGTGGCCGAGGAGCAGGACTGACACGTGCTACGAG
ATTTTCGATTCCACCGCCGCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTTCGGGACGCCGGCTGGAT
GATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCCTTCGCCACCCCAACTTGTTTTATTGCAGCTTATAAT
GGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTG
GTTTGTCCAACTCATCAATGTATCTTATCATGTCTGTATACCGTCGACCTCTAGCTAGAGCTTGGCGTA
ATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAATCCACACAACATACGAGCCGGA
AGCATAAAGTGTAAGACCTGGGGTGCCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGC
CCGCTTTCCAGTCCGGGAACCTGTCTGCGGACGTCATTAATGAATCGGCCAACGCGCGGGAGAGCGG
TTTTCGTATTGGGCGCTCTTCCGCTTCTCTCGTCACTGACTCGCTGCGCTCGGTCTGGTCTGCGGCGA
GCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACA
TGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCTTGCTGGCGTTTTTCCATAGGCT
CCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAA
AGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGAT
ACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTCTCATAGCTCACGCTGTAGGTATCTCAGTTC
GGTGTAGGTGCTTCCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTTCAGCCCCGACCGCTGCGCCTTA
TCCGGTAACACTATCGTCTTGAGTCAACCCGGTAAGACAGACTTATCGCCACTGGCAGCAGCCACTGGTA
ACAGGATTAGCAGAGCAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAATACAGGTA
CACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAGAGAGTTGGTAGC
TCTTGATCCGGCAAAACAAACCACCGCTGGTAGCGGTTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAA
AAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTGAACGAAAACCTCACG
TTAAGGGATTTTGGTTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGT
TTTAAATCAATCTAAAGTATATATGAGTAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCAC
CTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGAT
ACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACC GGCTCCAGAT
TTATCAGCAATAAACCAGCCGAGCCGGAAGGGCCGAGCGCAGAAGTGGTCTTGCAACTTTATCCGCCTCCA
TCCAGTCTATTAATTGTTGCGGGGAAGCTAGAGTAAGTAGTTTCGCCAGTTAATAGTTTTCGCAACGTTGT
TGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCTGTTGGTATGGCTTCATTACGCTCCGGTTCCCAA
CGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAGCGGTTAGCTCCTTCGGTCTCCGATCG
TTGTGAGAAGTAAGTTGGCCGAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGT
CATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGATG
CGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAG
TGCTCATCATTGAAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTC
GATGTAAACCCACTCGTGACCCCACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCA
AAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCT
TCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTAT
TTAGAAAAATAAACAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTC

Please amend Table 29 on pages 452 and 453 as follows:

Table 29: Nucleotide sequence of plasmid pcDNA™6.2/GFP-DEST (SEQ ID NO: 113).

GACGGATCGGGAGATCTCCCGATCCCTATGGTGCAGTCTCAGTACAATCTGCTCTGATGCCGCATAGTT
AAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTGCGTGAGTAGTGCGCGAGCAAAATTTAAGCTACA
ACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGCTTCGCG
ATGTACGGGCCAGATATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTC
ATTAGTTCATAGCCCATATATGGAGTTCGCGCTTACATAACTTACGGTAAATGGCCCGCTGGCTGACCG
CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCC
ATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCC
AATGACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACCTTA
TGGGACTTTCTTACTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATGGTGTATGCGGTTTTGGC
AGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAA
TGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAATGTCGTAACAACCTCGCCCCATTGACG
CAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCA
CTGCTTACTGGCTTATCGAAATTAATACGACTCACTATAGGGGAGACCCAAGCTGGCTAGTTAAGCTATCA
ACAAGTTTGTACAAAAAGCTGAACGAGAAACGTAAAATGATATAAAATATCAATATATTAAATTAGATTT
TGCATAAAAAACAGACTACATAATACTGTAAAACACAACATATCCAGTCACTATGAATCAACTACTTAGA
TGGTATTAGTGACCTGTAGTCGACCGACAGCCTTCCAAATGTTCTTCGGGTGATGCTGCCAAGTTAGTCG
ACCGACAGCCTTCCAAATGTTCTTCTCAAACGGAATCGTCGTATCCAGCCTACTCGCTATTGTCCTCAAT
GCCGTATTAAATCATAAAAAGAAATAAGAAAAAGAGGTGCGAGCCTCTTTTTTGTGTGACAAAAATAAAAA
CATCTACCTATTTCATATACGCTAGTGTATAGTCTCTGAAAATCATCTGCATCAAGAACAATTTTCAAACT
CTTATACTTTTCTCTTACAAGTCGTTCCGCTTCATCTGGATTTTTCAGCCTCTATACTTACTAAACGTGAT
AAAGTTTCTGTAATTTCTACTGTATCGACCTGCAGACTGGCTGTGTATAAGGGAGCCTGACATTTATATT
CCCCAGAACATCAGGTTAATGGCGTTTTTGTATGTCATTTTCGCGGTGGCTGAGATCAGCCACTTCTTCCC
CGATAACGGGAGACCGGCACACTGGCCATATCGGTGGTCATCATGCGCCAGCTTTCATCCCCGATATGCAC
CACCGGGTAAAGTTACGGGAGACTTATCTGACAGCAGACGTGCACTGGCCAGGGGGATCACCATCCGT
CGCCCCGGCGTGTCAATAATATCACTCTGTACATCCACAAACAGACGATAACGGCTCTCTCTTTTATAGG
TGTAACCTTAAACTGCATTTTACCAGTCCCTGTTCTCGTCAGCAAAAGAGCCGTTTCAATTAACACC
GGGCGACCTCAGCCATCCCTTCCGTGATTTTCCGTTTCCAGCGTTCGGCACGCAGACGACGGGCTTCATT
CTGCATGGTTGTGCTTACCAGACCGGAGATATTGACATCATATATGCCTTGAGCAACTGATAGCTGTCTGC
TGTAACCTGTCACTGTAATACGCTGCTTCATAGCACACCTCTTTTTGACATACTTCGGGTATACATATCA
GTATATATTCTTATACCGCAAAAATCAGCGCGCAAAATACGCATACTGTTATCTGGCTTTTAGTAAGCCGG
ATCCACGCGATTACGCCCCGCCCTGCCACTCATCGCAGTACTGTTGTAATTCATTAAGCATTCTGCCGAC
ATGGAAGCCATCACAGACGGCATGATGAACCTGAATCGCCAGCGGCATCAGCACCTTGTGCGCTTGCCTA
TAATATTTGCCCATGGTGAAAACGGGGGCGAAGAAGTTGTCCATATTGGCCACGTTTAAATCAAACTGG
TGAACTCACCCAGGGATTGGCTGAGACGAAAAACATATTCTCAATAAACCTTTAGGGAAATAGGCCAG
GTTTTACCGTAACACGCCACATCTTGCGAATATATGTGTAGAACTGCCGGAAATCGTCGTGGTATTCA
CTCCAGAGCGATGAAAACGTTTCAGTTTGCTCATGGAAAACGGTGTAACAAGGGTGAACTATCCCATAT
TCACCAGCTCACCGTCTTTTCAATTGCCATACGGAATTCGGGATGAGCATTTCATCAGGCGGGCAAGAATGTG
AATAAAGGCCGGATAAAAATTTGTGCTTATTTTTCTTTACGGTCTTTAAAAAGGCCGTAATATCCAGCTGA
ACGGTCTGGTTATAGGTACATTGAGCAACTGACTGAAATGCCTCAAAATGTTCTTTACGATGCCATTGGG
ATATATCAACGGTGGTATATCCAGTGATTTTTTTCTCCATTTTAGCTTCCTTAGCTCCTGAAAATCTCGA
TAACTCAAAAAATACGCCCGGTAGTGATCTTATTTTCAATTATGGTGAAAGTTGGAACCTCTTACGTGCCGA
TCAACGTCTCATTTTCGCCAAAAGTTGGCCCAGGGCTTCCCGGTATCAACAGGGACACCAGGATTTATTT
ATTCTGCGAAGTGATCTTCCGTCACAGGTATTTATTCGGCGCAAAGTGCGTCGGGTGATGCTGCCAAGTT
AGTCGACTACAGGTCACTAATACCATCTAAGTAGTTGATTTCATAGTACTGATATGTTGTGTTTTACAG
TATTATGATAGTCTGTTTTTATGCAAAATCTAATTTAATATATTGATATTATATCATTTTACGTTTTCTC
GTTTACGTTTTCTGTACAAAGTGTTGATCTAGAGGCCCCGCGCTAGCAAGGAGAGAAGAACTTTTAC
TGGAGTTGTCCCAATTCTTGTGTAATTAGATGGTGATGTTAATGGGCACAAATTTTCTGTCTAGTGGAGAG
GGTGAAGGTGATGCTACATACGGAAAGCTTACCCTTAAATTTATTTGCACTACTGGAAAACCTACCTGTTT
CATGGCCAACACTTGTCACTACTTTCTCTTATGGTGTTCATGCTTTTCCCGTTATCCGGATCATATGAA
ACGGCATGACTTTTTTCAAGAGTGCCATGCCCGAAGGTTATGTACAGGAACGCACTATATCTTTCAAAGAT
GACGGGAACATAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCTTGTTAATCGTATCGAGTTAA
AAGGTATTGATTTTAAAGAAGATGGAACATTTCTCGGACACAACTCGAGTACAACCTATAACTCACACAA

Table 29 (continued) Nucleotide sequence of plasmid pcDNATM6.2/GFP-DEST
(SEQ ID NO: 113).

TGTATACATCACGGCAGACAAACAAAAGAATGGAATCAAAGCTAACTTCAAATTCGTCACAACATTGAA
GATGGATCCGTTCAACTAGCAGACCATTTATCAACAAAATACTCCAATTGGCGATGGCCCTGTCCTTTTAC
CAGACAACCATTACCTGTCGACACAATCTGCCCTTTTCGAAAGATCCCAACGAAAAGCGTGACCACATGGT
CCTTCTTGAGTTTGTAAGTCTGCTGGGATTACACATGGCATGGATGAATAGTAATGAGTCCACGTTTAA
ACGGGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAACCCGCGCTATGACGGCAATAAAA
AGACAGAATAAAACGCACGGGTGTTGGGTCTGTTTGTTCATAAACCGGGGTTTCGGTCCCAGGGCTGGCAC
TCTGTCGATACCCACCGAGACCCCATTTGGGGCCAATACGCCCGCGTTTCTTCCCTTTTCCCCACCCACCC
CCCCAAGTTTCGGGTGAAGGCCAGGGCTCGCAGCCAAACGTCGGGGCGGCAGGCCCTGCCATAGCAGATCT
GCGCAGCTGGGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTG
GTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTTCGCTTTCTTCCCTTCCT
TTCTCGCCACGTTTCGCGGGCTTTCCCCGTCAAGCTCTAAATCGGGGCATCCCTTTAGGGTTCGGATTTAG
TGCTTTACGGCACCTCGACCCCCAAAAAATTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGA
TAGACGGTTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAA
CAACACTCAACCCTATCTCGGTCTATTTCTTTTGATTTATAAGGGATTTTGGGGATTTTCGGCCTATTGGTT
AAAAATGAGCTGATTTAACAATAAATTAACGCGAATTAATCTGTGGAATGTGTGTGAGTTAGGGTGTG
GAAAGTCCCAGGCTCCCCAGCAGGCAGAAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTG
TGGAAAGTCCCAGGCTCCCCAGCAGGCAGAAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATA
GTCCCGCCCTAACTCCGCCCATCCCGCCCTAACTCCGCCCAGTTCCGCCCATTTCTCCGCCCATGGCT
GACTAATTTTTTTTATTTATGACAGAGCCGAGGCCGCTCTGCCTCTGAGCTATTCCAGAAGTAGTGAGG
AGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTCCCGGGAGCTTGTATATCCATTTTCGGATCTGAT
CAGCACGTGTTGACAATTAATCATCGGCATAGTATATCGGCATAGTATAATACGACAAGGTGAGGAACATA
AACCATGGCCAAGCCTTTGTCTCAAGAAGAATCCACCCTCATTTGAAAGAGCAACGGCTACAATCAACAGC
ATCCCCATCTCTGAAGACTACAGCGTCGCCAGCGCAGCTCTCTCTAGCGACGGCCGCATCTTCACTGGTG
TCAATGTATATCATTTTACTGGGGACCTTGTGCGAAGTCTGTTGGTGTGGGCACTGCTGCTGCTGCGGC
AGCTGGCAACCTGACTTGATCGTCGCGATCGGAAATGAGAACAGGGGCATCTTGAGCCCCCTGCGGACGG
TGCCGACAGGTGCTTCTCGATCTGCATCCTGGGATCAAAGCCATAGTGAAGGACAGTGATGGACAGCCGA
CGGCAGTTGGGATTCTGTAATTGCTGCCCTCTGGTTATGTGTGGGAGGGCTAAGCACTTCGTGGCCGAGG
AGCAGGACTGACACGTGCTACGAGATTTGATTTCCACCGCCGCTTCTATGAAAGGTTGGGCTTCGGAAT
CGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCCCCCC
AATTGTTTATTGACGCTTATAATGGTTACAAATAAAGCAATAGCATCACAATTTTCAAAATAAAGCAT
TTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGTATACCGTC
GACCTCTAGCTAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACA
ATTTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCTTAATGAGTGAGCTAACTCA
CATTAAATTGCGTTGCGCTCACTGCCGCTTTTCCAGTTCGGGAAACCTGTCTGCGCAGCTGCAATTAAGTA
CGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATTGGGCGCTCTTCCGCTTCTCTGCTCACTGACTCGCTG
CGCTCGGTGCTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAAT
CAGGGGATAACGCAGGAAAGACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGC
GTTGCTGGCGTTTTTTCATAGGCTCCGCCCCCTGACGAGCATCACAATAATCGACGCTCAAGTCAGAGG
TGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTG
TTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCCTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAG
CTCACGCTGATAGGTATCTCAGTTCCGTTGATAGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCC
GTTACGCCCCGACCGCTGCGCCTTATCCGGTAACATCTGAGTCCAACCCGTAAGACACGACTTAT
CGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTT
GAAGTGGTGGCCTAACTACGGCTACACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTT
ACCTTCGGAAGAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTTTTTTTGT
GCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGA
CGCTCAGTGGAAACGAAAACCTACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTACCTAG
ATCCTTTTAAATTAATAATGAAGTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTT
ACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACT
CCCCGCTGCTGATAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGGA
GACCCGCTCACCAGCTCCAGATTATCAGCAATAAACAGCCAGCCGGAAGGGCCGAGCGCAGAAGTG
GTCCTGCAACTTTTATCCGCTCCATCCAGTCTATTAATTGTTGCGGGAAGCTAGAGTAAGTAGTTTCGCC
AGTTAATAGTTTGCACAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCTGTTGGTATG

Table 29 (continued) Nucleotide sequence of plasmid pcDNA™6.2/GFP-DEST
(SEQ ID NO: 113).

GCTTCATTTCAGCTCCGGTTCCTCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGG
TTAGCTCCTTCGGTCCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGC
AGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACC
AAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCG
CGCCACATAGCAGAACTTTAAAAGTGCTCATCATTTGGAAAACGTTCTTCGGGGCGAAACTCTCAAGGAT
CTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACT
TTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAGGGAATAAGGGCGACAC
GGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCAT
GAGCGGATACATATTTGAATGTATTTAGAAAAATAACAATAGGGGTTCCGCGCACATTTCCCCGAAAA
GTGCCACCTGACGTC

Table 30: Amino acid sequence of a polypeptide having β -lactamase activity (SEQ ID NO: 114).

[illegible]

Please amend Table 31 on pages 455 and 456 as follows:

Table 31: Nucleotide sequence of pLenti4TO/V5-DEST (SEQ ID NO: 115).

aatgtagtcttatgcaatactctttagtagtcttgcaacatggtaacgatgagttagcaacatgccttacaaggagaga
aaaagcaccgtgcatgccgattggtggaagtaaggtggtagcatcgctgccttattaggaaggcaacagacgggtctg
acatggattggacgaaccactgaattgccgcattgcagagatattgtatttaagtgcctagctcgatacataaacgg
gtctctctggtagaccagatctgagcctgggagctctctggctaactagggaaaccactgcttaagcctcaataaa
gcttgcccttagtgcttcaagtagtggtgcccgtctgttggtgtagctctggtaactagagatccctcagacccttt
tagtcagtgtggaaaatctctagcagtggcgcccgaacagggacttgaaagcgaagggaaccagaggagctctct
cgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgaggggcccgcactgggtgagtacgccaaaaatttt
gactagcggaggctagaaggagagagatgggtgcgagagcgtcagatttaagcgggggagaattagatcgcgatggg
aaaaaattcggttaaggccagggggaaagaaaaataaaattaaaacatatagtagtggaagcaggggagctagaa
cgattcgcagttaatcctggcctgttagaaacatcagaaggctgtagacaaatactgggacagctacaaccatccct
tcagacaggatcagaagaacttagatcattatataatacagtagcaaccctctattgtgtgcatcaaaggatagaga
taaaagacaccaaggaagctttagacaagatagaggaagagcaaaacaaaagtaagaccaccgcacagcaagcggcc
gctgatcttcagacctggaggaggagatagagggaacattggagaagtgaattatataataataaagtagtaaaaa
ttgaaccattaggagtagcacccaccaaggcaagagaagagtggtgcagagagaaaaaagagcagtggggaatagga
gctttgttccttggttcttgaggagcagcaggaagcactatgggcgcagcgtcaatgacgctgacggtacaggccag
acaattattgtctggtatagtgacgagcagaacaatttgctgagggctattgaggcgcaacagcatctgttgcaac
tcacagctctggggcatcaagcagctccaggcaagaatcctggctgtggaaagatacctaaaggatcaacagctcctg
gggatttggggttgctctggaaaactcatttgaccactgctgtgccttggaatgctagttggagtaataaatctct
ggaacagatttggaatcacacgacctggatggagtgaggacagagaaattaacaattacacaagcttaatacactcct
taattgaagaatcgcaaaaccagcaagaaaagaatgaacaagaattattggaattagataaatgggcaagtttggtg
aattgggttaacataacaaattggctgtggtatataaaattattcataatgatagtaggaggcttggtagggttaag
aatagtttttgctgtactttctatagtgaaatagagttaggcagggatattcaccattatcgtttcagacccacctcc
caaccccgaggggacccgacaggcccgaaggaatagaagaagaaggtggagagagagacagagacagatccattcga
ttagtgaacggatctcgacgggtatcgataagcttgggagttccgcgttacataacttacggtaaatggcccgcctgg
ctgacgcccaacgacccccgccattgacgtcaataatgacgtatgttcccatagtaacgcccaatagggactttcc
attgacgtcaatgggtggagtatttacggtaaaactgcccacttggcagtagcatcaagtgtagcatatgccaagtacg
ccccctattgacgtcaatgacggtaaatggcccgcctggcattatgccagtagcatgaccttatgggactttcctac
ttggcagtagcatctacgtattagtcacgtattaccatgggtgatgcgggttttggcagtagcatcaatgggcgtggat
agcgggttgactcacggggatttccaagctccacccattgacgtcaatgggagtttggtttggcaccaaaatcaa
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gaattctgcagatatcaacaagtttgtaaaaaagctgaacgagaaacgtaaaatgatataaatatcaatatatta
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ggcaccacagggtttacactttatgcttccggctcgtataatgtgtggattttgagttaggatccggcgagattttc
aggagctaagggaagctaaaatggagaaaaaatcactggatataaccacggttgatatatcccaatggcatcgtaaag
aacattttgaggcatttcagtcagttgctcaatgtacctataaccagaccgttcagctggatattacggccttttta
aagaccgtaaaagaaaaataagcacaaagttttatccggcctttattcacattcttgcccgcctgatgaatgctcatcc
ggaattccgtatggcaatgaaagacgggtgagctggtgatatgggatagtggttcacccttggttacaccggttttccatg
agcaaaactgaaacggttttcatcgctctggagtgaaataccacgacgatttccggcagtttctacacatatattcgcaa
gatgtggcgtgttacgggtgaaaacctggcctatttccctaaagggtttattgagaatatgttttctgctcagccaa
tccttggtgagtttaccagttttgatttaaactggccaatatggacaacttcttcgcccccggttttaccatgg
gcaaatattatacgcaaggcgacaaggtgctgatgcgctggcgattcaggttcacatgacgctctgtgatggcttc
catgtcggcagaatgcttaataatgaaatcacacagtagtcgtagtggtggcagggcgggcgtaaaagatctggatccg
cttactaaaagccagataaacagtatgcgtatttgccgctgatttttgcggtataagaatatatactgatagtata
cccgaagtatgtcaaaaagaggtgtgctatgaagcagcgtattacagtgacagttgacagcgacagctatcagttgc
tcaaggcatatatgatgtcaatatctccggtctggttaagcacacccatgcagaatgaagcccgctgctgctgctgccc
aacgctggaaagcgggaaatcaggaagggtggctgaggtgcggcggtttattgaaatgaacggctcttttgctgac
gagaacagggactgggtgaaatgcagtttaagggtttacacctataaaagagagagccggttatcgctctgtttgtggatg
tacagagtgatattattgacacgcccgggcgacggatgggtgatccccctggccagtgacagctctgctgtcagataaa
gtctcccggtgaactttaccgggtgggtgcatatcggggatgaaagctggcgcatgatgaccaccgatatggccagtg
gccggtctccggttatcggggaagaagtggctgatctcagccaccgcgaaaatgacatcaaaaacgccattaacctga

Table 31 (continued) Nucleotide sequence of pLenti4TO/V5-DEST SEQ ID NO: 115.

tgttctggggaatataaatgtcaggctccgttatcacagccagctctgcaggctcgaccatagtgactggatatgttg
tgttttacagtattatgtagtctgttttttatgcaaatctaatttaatatattgatatttatatcattttacgttt
ctcgttcagctttcttgtaaaagtgggtgatatccagcacagtgaggcgccgctcgagctctagagggcccgcggttc
gaaggtaagcctatccctaaccctctcctcggctctcgattctacgcgtaccgggttagtaatgagtttggaattaatt
ctgtggaatgtgtgtcagttaggggtgtggaagtccccaggctccccaggcaggcagaagtatgcaaagcatgcatc
tcaattagtcagcaaccagggtgtggaagtccccaggc
tccccagcaggcagaagtatgcaaagcatgcatctcaattagtcagcaaccatagtcgcccccctaactccgccccat
ccgccccctaactccgcccagttccgcccattctccgccccatggctgactaatttttttttatgtcagagggccg
aggcgccctctgcctctgagctattccagaagtagtgaggaggcttttttgaggccctaggcttttgcaaaaagctc
ccccgttgacaattaatcatcggcatagtatatacggcatagtataatacgacaagggtgaggaactaaaccatggcc
aagttgaccagtgccgttccggtgctcaccgcgcgcgacgtcgccggagcggctcgagttctggaccgaccggctcgg
gttctccgggacttctgtggaggacgacttcgcccgggtgtggtccgggacgacgtgacctgttcatcagcgcggtcc
aggaccagggtggtgcccggacaacaccctggcctgggtgtgggtgcccggcctggacgagctgtacgccgagtggtcg
gaggtcgtgtccacgaacttccgggacgcctccgggcccggccatgaccgagatcgccgagcagccgtgggggcccggga
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taaattggtacctttaagaccaatgacttacaaggcagctgtagactcttagccactttttaaaagaaaaggggggact
ggaagggttaattcactcccaacgaagacaagatctgctttttgtctgtactgggtctctctggttagaccagatct
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cagtagtagttcatgtcatcttattattcagtatttataacttgcaaagaaatgaatatcagagagtgagaggaact
tgtttattgcagcttataatggttacaaataaagcaatagcatcacaatttcacaaataaagcatttttttctactg
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cccatcccgccctaaactccgcccagttccgcccattctccgccccatggctgactaatttttttttatgtcaga
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ttacccaacttaatcgcccttgagcacatcccccttccgagctggcgtaatagcgaagaggcccgacccgatcgc
ccttcccaacagttgcgagcctgaatggcgaatgggacgcgcctgtagcggcgcatataagcgcggcggtgtggt
ggttacgcgcagcgtgaccgctacacttgccagcgccttagcgcgcgctcctttcgctttcttcccttcccttctcg
ccaggttcgcgggttttcccggtcaagctctaaatcgggggctcccttttagggttccgatttagtgctttacggcac
ctcgaccccaaaaaacttgattagggtagtggttcacgtagtgggccatcgccctgatagacgggttttctgccttt
gacgttgaggagtcacgttctttaatagtgagctcttgttccaaactggaacaacactcaaccctatctcggtctatt
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aattttaacaaaatattaacgcttacaatttaggtggcacttttccgggaaatgtgcgcggaaccctattttgttta
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aacagcggtaagatccttgagagttttcgccccgaagaacgttttccaatgatgagcacttttaaagttctgctatg
tggcgcggtattatcccgatttgacgcgggcaagagcaactcggtcgccgcatacactattctcagaatgacttgg
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atgagtataaacactgcggccaacttacttctgacaacgatcgaggacgaaggagctaaccgcttttttgacaaa
catgggggatcatgtaactcgcccttgatcgttgggaaaccggagctgaatgaagccataccaaacgacgagcgtgaca
ccagatgcctgtagcaatggcaacaacgttgcgcaaaactattaactggcgaactacttactctagcttcccgga
caattaatagactggatggagggcgataaaagtgcaggaccacttctgcgctcgcccttccggctggctggtttat
tgctgataaatctggagccgggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctccc
gtatcgtagttatctacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcc
tactgattaagcattggtaactgtcagaccaagtttactcatatatacttttagattgatttaaaacttcattttta
atttaaaaggatctaggtgaagatccttttgataatctcatgacaaaatcccttaacgtgagttttcgttccact
gagcgtcagaccccgtagaaaagatcaaaggatcttcttgagatccttttttctgcgcgtaatctgctgcttgcaa
acaaaaaaaccaccgctaccagcgggtggtttgtttgcccgatcaagagctaccaactctttttccgaaggtaactgg
cttcagcagagcgcagataccaaataactgttcttctagtgtagccgtagttaggccaccacttcaagaactctgtag
caccgcctacatacctcgctctgctaactcgtgtaccagtggtgctgcccagtgggcgataagtcgtgcttaccggg
ttggactcaagacgtagttaccggataaaggcgcagcgggtcggtgtaacggggggttcgtgcacacagccagctt
ggagcgaacgacctacaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaaaggga
aggcggacaggtatccggtgaagcggcaggggtcggaacaggagagcgcacgagggagcttccagggggaaacgcctgg
tatctttatagtcctgtcgggtttcgccacctctgacttgagcgtcgatttttgtgatgctcgtcaggggggaggag

Table 31 (continued) Nucleotide sequence of pLenti4TO/V5-DEST SEQ ID NO: 115).

cctatggaaaaacgccagcaacgcggcctttttacgggttcctggccttttgctggccttttgctcacatgttctttc
ctgcgttatcccctgattctgtggataaccgtattaccgcctttgagtgaagctgataccgctcgccgcagccgaacg
accgagcgcagcagtcagtgagcgaggaagcggaagagcgccaatacgcaaaccgcctctccccgcgcgttggcc
gattcattaatgcagctggcacgacagggtttcccgactggaaagcgggcagtgagcgcaacgcaattaatgtgagtt
agctcactcattagggacccccaggctttacactttatgcttcgggctcgatggttggtggaattgtgagcggataa
caatttcacacaggaaacagctatgaccatgattacgccaagcgcgcaattaaccctcactaaagggaacaaaagct
ggagctgcaagctt

Please amend Table 32 on pages 457 and 458 as follows:

Table 32: Nucleotide sequence of pLenti6/TR (SEQ ID NO: 116).

```
aatgtagtcttatgcaatactctttagtcttgcacatggtaacgatgagtttagcaacatgccttacaaggagaga
aaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgtgccttattaggaaggcaacagacgggtctg
acatggattggacgaaccactgaattgccgcatgacagagatattgtatttaagtgcctagctcgatacataaacgg
gtctctctgggttagaccagatctgagcctgggagctctctggctaactaggggaaccactgcttaagcctcaataaa
gcttgcccttgagtgttcaagtagtgtgtgcccgtctgttgtgtgactctggtaactagagatccctcagacccttt
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cgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgagggcgagctgggtgagtacgccaaaaatctt
gactagcggaggctagaaggagagagatgggtgcgagagcgtcagatttaagcgggggagaattagatcgcgatggg
aaaaaattcgggttaaggccagggggaaagaaaaaataaaatataaataaactatagtagggcaagcaggagctaga
cgattcgcagttaatcctggcctgttagaaacatcagaaggctgtagacaaatactgggacagctacaaccatccct
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tcacagctctggggcatcaagcagctccaggcaagaatcctggctgtggaaagataacctaaaggatcaacagctcctg
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caaccccgaggggacccgacaggcccgaaaggaatagaagaagaaggtggagagagagacagagacagatccattcga
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gcaaagttttcaggggtgtgtttagaatgggaagatgtcccttgtagtaccatggaccctcatgataaatttgtttc
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attaacagcgcattagagctgcttaattgaggtcggaatcgaaggtttaacaaccgtaaacgcggcagaagtagg
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```

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Table 32 (continued) Nucleotide sequence of pLenti6/TR (SEQ ID NO: 116).

agctggcacgacaggtttcccgactggaaagcgggcagtgagcgcaacgcaattaatgtgagttagctcactcatta
ggcaccccaggctttacactttatgcttccggctcgtatgttggtggaattgtgagcggataacaatttcacacag
gaaacagctatgaccatgattacgccaagcgcgcaattaaccctcactaaagggaacaaaagctggagctgcaagct
t

Please amend Table 33 on pages 459 and 460 as follows:

Table 33: Nucleotide sequence of pLenti6/V5 (SEQ ID NO: 117).

aatgtagtcttatgcaatactctttagtcttgcacatggtaacgatgagtttagcaacatgccttacaaggagaga
aaaagcaccgtgcatgccgattgggtggaagtaaggtggtagcatcgctgccttatttaggaaggcaacagacgggtctg
acatggattggacgaaccactgaattgccgcattgcagagatattgtatttaagtgcctagctcgatacataaacgg
gtctctctggtagaccagatctgagcctgggagctctctggctaactagggaaaccactgcttaagcctcaataaa
gcttgcccttgagtgtctcaagtagtgtgtgcccgtctgttgtgtgactctggtaactagagatccctcagacccttt
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gactagcggaggctagaaggagagagatgggtgcgagagcgtcagatttaagcgggggagaattagatcgcgatggg
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aagaatgaatatcagagagtgagaggaactgtttattgcagcttataatggttacaataaagcaatagcatcac
aaatttcacaaataaagcatttttttctactgcattctagttgtggtttgtccaaactcatcaatgtatcttatcatg

Table 33 (continued) Nucleotide sequence of pLenti6/V5 (SEQ ID NO: 117).

tctggctctagctatccccgccctaactccgcccatacccgcccctaactccgcccagttccgcccattctccgcccc
atggctgactaattttttttatgtatgcagaggccgaggccgcctcgccctctgagctattccagaagtagtgagga
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gcgtaatagcgaagaggcccgacccgatcgcccttcccaacagttgcgacgcctgaatggcgaatgggacgcgcct
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ccaaaaaacttgattaggggtgatgggttcacgtagtgggccatcgccctgatagacgggttttccgccccttgacggtg
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atgagatttcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttccctgtttttgctcaccagga
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caagacgatagttaccggataaggcgagcggtcgggctgaacggggggttcgtgcacacagcccagcttggaagcga
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acacaggaacagctatgaccatgattacgccaaagcgcgcaatttaaccctcactaaaggggaacaaaagctggagctg
caagctt

Please amend Table 34 on pages 461 and 462 as follows:

Table 34: Nucleotide sequence of pLenti3/V5-TREx (SEQ ID NO: 118).

```
aatgtagtcttatgcaatactcttgtagtcttgcaacatggtaacgatgagtttagcaacatgccttacaaggagaga
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ttagtgaacggatctcgacgggtatcgataagcttgggaggttcgcgcttacataacttacggtaaatggcccgctgg
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ccccctattgacgtcaatgacggtaaatggcccgctggcattatgccagtagatgaccttatgggactttcctac
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cgggactttccaaaatgtcgtaacaactccgccccattgacgcaaatgggcggtaggcgtgtacggtgggaggtcta
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accgtcagatcgctggagacgccatccacgctgttttgacctccatagaagacaccgggaccgatccagcctccgg
actctagaggatccctaccggtgatctcctcgagcttagagggcccgcggttcgaaggtaagcctatccctaaccct
ctcctcggctcgtatctacgctacgggttagtaattgagtttggaaattaattctgtggaatgtgtgtcagttaggg
tgtggaaagtccccaggctccccaggcaggcagaagtagcaaaagcatgcatctcaattagtcagcaaccatagtcgccccc
ctaactccgccccatcccgccccctaactccgcccagttccgccccattctccgccccatggctgactaatttttttat
ttatgcagaggccgaggccgctctgctctgagctattccagaagtagtgaggaggcttttttggaggcctaggct
tttgcaaaaagctccccctgttgacaattaatcatcggcatagtatatcggcatagtataatacgaacaaggtgagga
actaaaccatggcctcaattgaacaagatggattgcacgcaggttctccggccgcttggggtggagaggctattcggc
tatgactgggcacaacagacaatcggtgctctgatgcgcgcgtgttccggctgtcagcgcagggggcgcccggttct
ttttgtcaagaccgacctgtccggtgccttgaaatgaactgcaggacgaggcagcgcggtatcgtggctggccacga
cgggcggttcttgccgagctgtgctcgagcttgctcagtgagcgaaggggagggactggctgctattgggcgaagtgcg
ggcgaggatctcctgtcatctcaccttgctctgctgcccagagaagtagtccatcatggctgagtaacgcccggctgca
tacgcttgatccggctacctgccattcgaccaccaagcgaaacatcgcatcgagcgagcacgtactcggtggaag
ccggtcttgctgatcaggatgatctggacgaagagcatcaggggctcgccgacccgaactgttcgccagggtcaag
gcgcgcatgcccgcagggcgaggatctcgctcgtagcccatggcgatgcctgcttgccgaatatcatgggtggaaaatgg
ccgcttttctggattcatcgactgtggccggctgggtgtggcgagaccgctatcaggacatagcgttggttaccgctg
atattgctgaagagcttggcggcgaaatgggctgaccgcttccctcgctgtttacggtagtcgcccgtcccgattcgag
cgcatcgccctctatcgccctcttgacgagttcttctgagcgggactctgggggttcgaaatgaccgaccaagcgagc
cccaacctgccatcacgagtttaaactggtagctttaagaccaatgacttacaaggcagctgtagatcttagccact
```

Table 34 (continued) Nucleotide sequence of pLenti3/V5-TREx (SEQ ID NO: 118).

ttttaaaagaaaaggggggactggaagggttaattcactcccaacgaagacaagatctgctttttgcttgactggg
tctctctgggttagaccagatctgagcctgggagctctctgggtaactagggaaacccactgcttaagcctcaataaag
cttgcccttgagtgtctcaagtagtggtgcccgtctgttggtgactctggtaactagagatccctcagaccctttt
agtcagtggtggaaaatctctagcagtagtagttcatgtcatcttattattcagtatattataacttgcaaagaaatga
atatcagagagtgagaggaacttggttattgcagcttataatgggtacaaataaagcaatagcatcacaaatttcac
aaataaagcatttttttactgcattctagttgtgggttgtccaaactcatcaatgtatcttatcatgtctggctct
agctatccccgcccctaactccgcccattccccgcccct
aactccgcccagttccgcccattctccgcccattggctgactaattttttttatattatgcagaggccgaggccgct
cgccctctgagctattccagaagtagtgaggaggcttttttgaggcctagggacgtacccaattcgccctatagtg
agtcgtattacgcgcgtcactggccgtcgttttacaacgtcgtagctgggaaaacccctggcggtacccaactta
cgcccttgccagcacatccccctttccgagctggcgtaatagcgaagaggcccgaccgatcgcccttcccaacagtt
gcgagcctgaatggcgaatgggacgcgcctgtagcggcgcatataagcgcggcggtgtggtggttacgcgcagcg
tgaccgctacacttgccagcgccctagcgcgcgtcctttcgctttctcccttcccttctccgacgttcgccggc
tttccccgtcaagctctaaatcgggggctccctttaggggtccgatttagtgctttacggcacctcgaccccaaaaa
acttgattaggggtgatgggtcacgtagtgggccatcgccctgatagacgggttttccgccccttgacgttgagtgca
cgctctttaaagtggactcttggttccaaactggaacaactcaacctatctcggtctattctttgatttataa
gggattttgcccgtattcgccctattggttaaaaaatgagctgatttaacaaaaatttaacgcgaattttaacaaaat
attaacgcttacaatttaggtggcacttttccgggaaatgtgcgcggaacccctatttggtttatttttctaaataca
ttcaaatatgtatccgctcatgagacaataacccctgataaatgcttcaataatattgaaaaaggaagagtatgagta
ttcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttccgtgttttgcctcaccagaaacgctg
gtgaaagtaaaagatgctgaagatcagttgggtgcacgagtggttacatcgaactggatctcaacagcggttaagat
ccttgagagttttcgccccgaagaacgttttccaatgatgagcacttttaaaagttctgctatgtggcgcggtattat
cccgatttgacgcggggaagagcaactcggtcgccgcatacactattctcagaatgacttggttgagtactacca
gtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgtgccataacccatgagtataacac
tgccgccaacttacttctgacaacgatcggaggaccgaaggagctaacgcgttttttgacacacatgggggatcatg
taactcgcccttgatcggttgggaaccggagctgaatgaagccataccaaacgacgagcgtgacaccacgatgcctgta
gcaatggcaacaacgttgccgcaaaactattaactggcgaactacttactctagcttccccggcaacaattaatagactg
gatggaggcggtataaagttgcaggaccacttctgcgtcgcccttccggctgggtggtttattgctgataaatctg
gagccggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctcccgatcgtagttatc
tacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcctcactgattaagca
ttggttaactgtcagaccaagtttactcatatatacttttagattgatttaaaacttccatttttaatttaaaaggatct
aggtgaagatccctttttgataatctcatgacaaaatcccttaacgtgagttttcggtccactgagcgtcagacccc
gtagaaaagatcaaaggatcttcttgagatcccttttttctgcgcgtaattctgctgcttgcaaacaaaaaaaccacc
gctaccagcggtggtttgtttgcccgatcaagagctacaaactcttttccgaaggtaactggcttcagcagagcgc
agataccaaatactgttcttctagtgtagccgtagttaggccaccacttcaagaactctgtagcaccgcctacatac
ctcgctctgctaactctgttaccagtggtgctgctgccagtgggcgataagtcgtgtcttaccgggttggtgactcaagacg
atagttaccggataaaggcgcagcggtcgggctgaacgggggggttcgtgcacacagcccagcttgagcgaacgacct
acaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaaggagaaaggcggacaggtat
ccggttaagcggcaggggtcggaacaggagagcgcacgagggagcttccagggggaaacgcctgggtatctttatagtc
tgtcgggtttcgccacctctgacttgagcgtcgatttttgtgatgctcgtcagggggggcgagcctatggaaaaacg
ccagcaacgcggcctttttacgggttccctggccttttgcctggccttttgcctcacatgttcttttccgttatccct
gattctgtggataaccgattaccgccttttagtgagctgataccgctcgccgcagccgaacgaccgagcgcagcga
gtcagtgagcaggaagcggaagagcgccaatacgcgaacgcctctcccgcgcgttgggcgattcattaatgca
gctggcacgacaggtttcccgactggaaagcgggcagtgagcgaacgcaattaatgtgagttagctcactcatttag
gcacccaggtttacactttatgcttccggctcgatgttggtgtggaattgtgagcgggataacaatttcacacagg
aaacagctatgaccatgattacgccaagcgcgcaattaaccctcactaaagggaacaaaagctggagctgcaagctt

Please amend Table 35 on page 463 as follows:

Table 35: Nucleotide sequence of a nucleic acid fragment containing the tetracycline repressor coding sequence (SEQ ID NO: 119).

```
agcttggtacccggggatcctctagggcctctgagctattccagaagtagtgaagaggcttttttggaggcctaggc
ttttgcaaaaagctccggatcgatcctgagaacttcagggtagtttggggacccttgattgttctttcttttctgc
tattgtaaaattcatgttatatggagggggcaggttttcaggggtgttgtttagaatgggaagatgtcccttgatc
accatggaccctcatgataattttgtttctttcactttctactctgttgacaaccattgtctctcttattttcttt
tcattttctgtaactttttcgttaaacttttagcttgcatttgaacgaatttttaaaattcacttttgtttatttgtc
agattgtaagtactttctctaatacactttttttcaaggcaatcagggtagattatattgtacttcagcacagtttt
agagaacaattgttataattaaatgataaggtagaatatttctgcatataaaattctggctggcggtggaaatattctt
attggtagaaacaactacatcctggatcatcctgcctttctctttatggttacaatgatatacactgtttgagat
gaggataaaatactctgagtcctaaaccggggccctctgctaaccatgttcatgccttcttcttttctacagctcc
tgggcaacgtgctggttattgtgctgtctcatcattttggcagaagattgtaatacgactcactatagggcgaattg
atatgtctagattagataaaaagtaaagtgattaacagcgcattagagctgcttaatgaggtcggaatcgaaggttta
acaaccgtaaaactcgcccagaagctaggtgtagagcagcctacattgtattggcatgtaaaaaataagcgggcttt
gctcgacgccttagccattgagatgtagatagggaccatactcacttttgccctttagaaggggaaagctggcaag
attttttacgtaataacgctaaaagtttttagatgtgctttactaagtcacgcgatggagcaaaagtacatttaggt
acacggcctacagaaaaacagtatgaaactctcgaaaatcaattagcctttttatgccacaaggtttttcactaga
gaatgcattatatgcactcagcgtgtggggcattttacttttaggttgcgtattggaagatcaagagcatcaagtcg
ctaaagaagaaaggggaaacactactactgatagtatgccgccattattacgacaagctatcgaattatttgatcac
caaggtgcagagccagccttcttattcggccttgaattgatcatatgcggattagaaaaacaacttaaatgtgaaag
tgggtccgctacagcggatcccggaattctagagggcccgcggttcgaacaaaaactcatctcagaagaggatct
gaatatgcata
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Please amend Table 36 on pages 464 and 465 as follows:

Table 36: Nucleotide sequence of pRRL6/V5 also referred to as pLenti6/V5 (SEQ ID NO: 120).

1	aatgtagtct	tatgcaatac	tctttagtagtc	ttgcaacatg	gtaacgatga	gttagcaaca
61	tgccttacaa	ggagagaaaa	agcaccgtgc	atgccgattg	gtggaagtaa	gggtggtacga
121	tcgtgcctta	ttaggaaggc	aacagacggg	tctgacatgg	attggacgaa	ccactgaatt
181	gccgcattgc	agagatattg	tattttaagtg	cctagctcga	tacaataaac	gggtctctct
241	ggtttagacca	gatctgagcc	tgggagctct	ctggctaact	agggaaaccca	ctgcttaagc
301	ctcaataaag	cttgccctga	gtgcttcaag	tagtgtgtgc	ccgtctgttg	tgtgactctg
361	gtaactagag	atccctcaga	cccttttagt	cagtgtggaa	aatctctagc	agtggcgccc
421	gaacagggag	ctgaaagcga	aagggaaacc	agagctctct	cgacgcagga	ctcggcttgc
481	tgaagcgcg	acggcaagag	gcgagggg	gcgactggtg	agtacgccaa	aaattttgac
541	tagcggaggc	tagaaggaga	gagatgggtg	cgagagcgtc	agtattaagc	gggggagaat
601	tagatcgcg	tgggaaaaaa	ttcgggttaag	gccaggggga	aagaaaaaat	ataaattaaa
661	acatatagta	tgggcaagca	gggagctaga	acgattcgca	gttaatcctg	gcctgttaga
721	aacatcagaa	ggctgtagac	aaatactggg	acagctacaa	ccatcccttc	agacaggatc
781	agaagaactt	agatcattat	ataatacagt	agcaaccctc	tattgtgtgc	atcaaaggat
841	agagataaaa	gacaccaagg	aagctttaga	caagatagag	gaagagcaaa	acaaaagtaa
901	gaccaccgca	cagcaagcgg	ccgctgatct	tcagacctgg	aggaggagat	atgagggaca
961	attggagaag	tgaattatat	aaatataaag	tagtaaaaaat	tgaaccatta	ggagtagcac
1021	ccaccaaggc	aaagagaaga	gtggtgcaga	gagaaaaaag	agcagtggga	ataggagctt
1081	tgttccttgg	gttcttggga	gcagcaggaa	gcactatggg	cgagcctca	atgacgtga
1141	cggtagcagg	cagacaatta	ttgtctggta	tagtgcagca	gcagaacaat	ttgtgaggg
1201	ctattgaggc	gcaacagcat	ctgttgcaac	tcacagtctg	gggcatcaag	cagctccagg
1261	caagaatcct	ggctgtggaa	agatacctaa	aggatcaaca	gctcctgggg	atttgggggt
1321	gctctggaaa	actcatttgc	accactgctg	tgccttggaa	tgctagttag	agtaataaat
1381	ctctggaaca	gattggaatc	acacgacctg	gatggagtg	gacagagaaa	ttacaatta
1441	cacaagctta	atacactcct	taattgaaga	atcgcaaaac	cagcaagaaa	agaatgaaca
1501	agaattattg	gaattagata	aatgggcaag	tttgtggaat	tggtttaaca	taacaaattg
1561	gctgtggtat	ataaaattat	tcataatgat	agtaggaggc	ttggtaggtt	taagaatagt
1621	ttttgctgta	ctttctatag	tgaatagagt	taggcaggga	tattcaccat	tatcgtttca
1681	gacccacctc	ccaaccccg	ggggacctga	caggcccgaa	ggaatagaag	aagaagggtg
1741	agagagagac	agagacagat	ccattcgatt	agtgaacgga	tctcgacggt	atcgataagc
1801	ttgggagttc	cgcgttacat	aacttacggg	aaatggcccg	cctggctgac	cgcccaacga
1861	ccccgcgcca	ttgacgtcaa	taatgacgta	tgttcccata	gtaacgcca	tagggacttt
1921	ccattgacgt	caatgggtgg	agtattttacg	gtaaaactgcc	cacttggcag	tacatcaagt
1981	gtatcatatg	ccaagtacgc	cccctattga	cgtcaatgac	ggtaaatggc	ccgcctggca
2041	ttatgcccag	tacatgacct	tatgggactt	tcctacttgg	cagtacatct	acgtattagt
2101	catcgctatt	accatgggtga	tgcggttttg	gcagtacatc	aatgggcgtg	gatagcgggt
2161	tgactcacgg	ggatttccaa	gtctccacc	cattgacgtc	aatgggagtt	tgttttggca
2221	ccaaaatcaa	cgggactttc	caaaatgtcg	taacaactcc	gccccattga	cgaaaatggg
2281	cggtaggcgt	gtacgggtgg	aggtctatat	aagcagagct	cgttttagtga	accgtcagat
2341	cgcttgagga	cgccatccac	gctgttttga	cctccataga	agacaccgac	tctagaggat
2401	ccactagtcc	agtgtggtgg	aattctgcag	atatccagca	cagtggcggc	cgctcgagtc
2461	tagagggccc	gcggttcgaa	ggtaagccta	tccttaaccc	tctcctcggt	ctcgattcta
2521	cgcgtagccg	ttagtaatga	gtttggcctg	ctgccggctc	tgccggcctc	tccgcgtctt
2581	cgccctcgcc	ctcagacgag	tcggatctcc	ctttggggccg	cctccccgcc	tggaaattaat
2641	tctgtggaat	gtgtgtcagt	tagggtgtgg	aaagtcccca	ggctccccag	gcaggcagaa
2701	gtatgcaaa	catgcatctc	aattagtcag	caaccagggtg	tggaaaagtcc	ccaggctccc
2761	cagcaggcag	aagtatgcaa	agcatgcac	tcaattagtc	agcaaccata	gtcccccccc
2821	taactccgcc	catccccgcc	ctaactccgc	ccagttccgc	ccattctccg	ccccatggct
2881	gactaatttt	ttttatttat	gcagaggccg	aggccgcctc	tgccctctgag	ctattccaga
2941	agtagtgagg	aggctttttt	ggaggcctag	gcttttgcaa	aaagctcccc	ggagcttgta
3001	tatccatttt	cggatctgat	cagcacgtgt	tgacaattaa	tcatcggcag	agtatatcgg
3061	catagtataa	tacgacaagg	tgaggaaacta	aaccatggcc	aagcctttgt	ctcaagaaga

Table 36 (continued) Nucleotide sequence of pRRL6/V5 also referred to as pLenti6/V5
(SEQ ID NO: 120).

3121	atccaccctc	attgaaagag	caacggctac	aatcaacagc	atccccatct	ctgaagacta
3181	cagcgtcgcc	agcgcagctc	tctctagcga	cggccgcctc	ttcactgggtg	tcaatgtata
3241	tcatttttact	gggggacctt	gtgcagaact	cgtgggtgctg	ggcactgctg	ctgctgcggc
3301	agctggcaac	ctgacttgta	tcgtcgcgat	cggaaatgag	aacaggggca	tcttgagccc
3361	ctgcggaacg	tgccgacagg	tgcttctcga	tctgcctcct	gggatcaaag	ccatagtga
3421	ggacagtgat	ggacagccga	cggcagttgg	gattcgtgaa	ttgctgccct	ctggttatgt
3481	gtgggagggc	taagcacaat	tcgagctcgg	tacctttaag	accaatgact	tacaaggcag
3541	ctgtagatct	tagccacttt	ttaaaagaaa	aggggggact	ggaagggcta	attcactccc
3601	aacgaagaca	agatctgctt	tttgcttgta	ctgggtctct	ctggttagac	cagatctgag
3661	cctgggagct	ctctgggtaa	ctagggaacc	cactgcttaa	gcctcaataa	agcttgccct
3721	gagtgcctca	agtagtgtgt	gcccgtctgt	tgtgtgactc	tggttaactag	agatccctca
3781	gaccctttta	gtcagtgtgg	aaaatctcta	gcagtagtag	ttcatgtcat	cttattattc
3841	agtattttata	acttgcaaag	aaatgaatat	cagagagtga	gaggaacttg	tttattgcag
3901	cttataatgg	ttacaaataa	agcaatagca	tcacaaat	cacaaataaa	gcattttttt
3961	cactgcattc	tagttgtggg	ttgtccaaac	tcacaaat	atcttatcat	gtctggctct
4021	agctatcccg	cccctaactc	cgcacagttc	cgcacattct	ccgccccatg	gctgactaat
4081	tttttttatt	tatgcagagg	ccgaggccgc	ctcgccctct	gagctattcc	agaagtagtg
4141	aggaggcttt	tttgagggcc	taggcttttg	cgtcgagacg	taccaatttc	gccctatagt
4201	gagtgcgtatt	acgcgcgctc	actggccgtc	gttttacaac	gtcgtgactg	ggaaaaccct
4261	ggcggttacc	aacttaatcg	ccttgacgca	catccccctt	tcgccagctg	gcgtaatagc
4321	gaagaggccc	gcaccgatcg	cccttcccaa	cagttgcgca	gcctgaatgg	cgaatggcgc
4381	gacgcgccct	gtagcggcgc	attaagcgcg	gcgggtgtgg	tggttacgcg	cagcgtgacc
4441	gctacacttg	ccagcgcctt	agcgcgccgt	cctttcgctt	tcttcccttc	ctttctcgcc
4501	acgttcgccg	gctttccccg	tcaagctcta	aatcgggggc	tcccttttagg	gttccgattt
4561	agtgcctttac	ggcacctcga	ccccaaaaaa	cttgatttagg	gtgatgggtc	acgtagtggg
4621	ccatcgccct	gatagcgggt	ttttcgccct	ttgacgttgg	agtcacaggt	ctttaatagt
4681	ggactccttg	tccaaactgg	aacaacactc	aaccctatct	cggcttattc	ttttgattta
4741	taagggtattt	tgccgatttc	ggcctatttg	ttaaaaaatg	agctgattta	acaaaaat
4801	aacgcgaatt	ttaacaaaat	attaacgttt	acaatttccc	aggtggcact	tttcggggaa
4861	atgtgcgcgg	aacccttatt	tgttttattt	tctaaataca	ttcaaataatg	tatccgctca
4921	tgagacaata	accctgataa	atgcttcaat	aatattgaaa	aaggaagagt	atgagtattc
4981	aacatttccg	tgctgcctct	attccctttt	ttgcggcatt	ttgccttcc	gtttttgctc
5041	acccagaaac	gctgggtgaa	gtaaaagatg	ctgaagatca	gttgggtgca	cgagtgggtt
5101	acatcgaact	ggatctcaac	agcggtaaga	tccttgagag	ttttcgcccc	gaagaacgtt
5161	ttccaatgat	gagcactttt	aaagttctgc	tatgtggcgc	ggatttatcc	cgtattgacg
5221	ccgggcaaga	gcaactcggg	cgcgcacatc	actattctca	gaatgacttg	gtttgtagct
5281	caccagtcac	agaaaagcat	cttacgggatg	gcatgacagt	aagagaatta	tgacgtgctg
5341	ccataaccat	gagtataaac	actgcggcca	acttacttct	gacaacgac	ggaggaccga
5401	aggagctaac	cgcttttttg	cacaacatgg	gggatcatgt	aactcgcctt	gatcgttggg
5461	aaccggagct	gaatgaagcc	ataccaaacg	acgagcgtga	caccacgatg	cctgtagcaa
5521	tggaacaac	gttgcgcaaa	ctattaactg	gcgaactact	tactctagct	ccccggcaac
5581	aattaataga	ctggatggag	gcggataaag	ttgcaggacc	acttctgcgc	tcggcccttc
5641	cggctggctg	gtttattgct	gataaatctg	gagcgggtga	gcgtgggtct	cgcggtatca
5701	ttgcagcact	ggggccagat	ggtgaagcct	cccgtatcgt	agttatctac	acgacgggga
5761	gtcaggcaac	tatggatgaa	cgaatagac	agatcgctga	gataggtgcc	tcactgatta
5821	agcattggta	actgtcagac	caagtttact	catatatact	ttagattgat	ttaaaacttc
5881	atttttaatt	taaaaggatc	taggtgaaga	tcctttttga	taatctcatg	acaaaaatcc
5941	cttaacgtga	gttttcgttc	cactgagcgt	cagaccccg	agaaaagatc	aaaggatcct
6001	cttgagatcc	ttttttctg	cgcgtaatct	gctgcttgca	aacaaaaaaa	ccaccgctac
6061	cagcgggtgg	ttgtttgccc	gatcaagagc	taccaactct	ttttccgaag	gtaactggct
6121	tcagcagagc	gcagatacca	aatactgtcc	ttctagtgtg	gccgtagtta	ggccaccact
6181	tcaagaactc	tgtagcaccg	cctacatacc	tcgctctgct	aatcctgtta	ccagtggctg
6241	ctgccagtg	cgataagtcg	tgtcttaccg	ggttggactc	aagacgatag	ttaccggata
6301	aggcgcagcg	gtcgggctga	acgggggggt	cgtgcacaca	gcccagcttg	gagcgaacga

Table 36 (continued) Nucleotide sequence of pRRL6/V5 also referred to as pLenti6/V5
(SEQ ID NO: 120).

```
6361 cctacaccga actgagatac ctacagcgtg agctatgaga aagcgccacg cttcccgaag
6421 ggagaaaggc ggacaggatc cgggtaagcg gcagggtcgg aacaggagag cgcacgaggg
6481 agcttccagg gggaaacgcc tggatatctt atagtcctgt cgggtttcgc cacctctgac
6541 ttgagcgtcg atttttgtga tgctcgtcag gggggcggag cctatggaaa aacgccagca
6601 acgcggcctt tttacggttc ctggcctttt gctggccttt tgctcacatg ttctttcctg
6661 cgttatcccc tgattctgtg gataaccgta ttaccgcctt tgagtgaact gataccgctc
6721 gccgcagccg aacgaccgag cgcagcgagt cagtgaagca ggaagcgga gagcgcccaa
6781 tacgcaaacc gcctctcccc gcgcgttggc cgattcatta atgcagctgg cacgacaggt
6841 ttcccgaact gaaagcgggc agtgagcgca acgcaattaa tgtgagttag ctactcatt
6901 aggcacccca ggctttacac tttatgcttc cggctcgtat gttgtgtgga attgtgagcg
6961 gataacaatt tcacacagga aacagctatg accatgatta cgccaagcgc gcaattaacc
7021 ctactaaag ggaacaaaag ctggagctgc aagctt
```

At the end of the application, and before the drawings, please insert the sequence listing attached hereto.